151750 VS 8/3/99

MONTGOMERY WATSON

August 3, 1999

Barbara Magel, Esquire
Chairman, ACS RD/RA Executive Committee
Karaganis & White
414 North Orleans Street
Chicago, IL 60610

Re: Evaluation of the ACS NPL Site
Groundwater Treatment Plant
Y2K Compliance

Dear Ms. Magel:

In response to the July 1, 1999 U.S. EPA request, we have completed our evaluation of the Y2K readiness of the ACS NPL Site groundwater treatment plant. Our evaluation included equipment that could possibly contain date/time-embedded information, that potentially would be affected by Y2K impacts. The attached memo and attachments summarize our findings.

Our evaluation has identified two pieces of equipment that are not Y2K ready: The man-machine interface (MMI-desktop PC that is used to interface with the programmable logic controller), and the autodialer alarm.

Corrective Actions:
It is our intent, given that the groundwater treatment plant is currently being upgraded and that eventually the ISVE control system will be added, to replace the existing MMI with a more powerful, expandable Y2K-compliant PC. We will test the autodialer, if possible, for Y2K readiness, and if necessary, replace it, too.

Contingency Plan:
Because the systems at the site are dependent on power and natural gas (for heat inside the building), and the potential for these utilities to be affected by Y2K impacts is unknown, our plan is to turn the groundwater treatment plant off from noon on Friday, December 30, 1999 until 8 am on Monday, January 3, 1999. In this manner, we will be certain that the treatment system(s) do not malfunction, in the event that the turn-of-the-century affects any of the local utilities. This temporary shut-down should not significantly effect the performance of the plant, and the plant will be restarted in a controlled manner on January 3.

Based on the information provided to us by suppliers, manufacturers and vendors, and based on our knowledge of the systems at the Site, the two problems identified above should be easily resolved. However, while we have conducted this evaluation, we cannot guarantee the readiness of all the equipment, as we have relied upon supplier and vendor information in our evaluation.

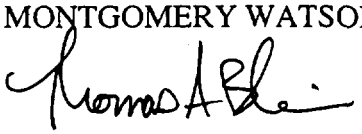
2100 Corporate Drive
Addison, Illinois
60101

Tel: 630 691 5000
Fax: 630 691 5133

We appreciate the continued opportunity to provide services to the ACS RD/RA Executive Committee. If you have any questions regarding this Y2K evaluation, please contact me at (630) 691-5045.

Sincerely,

MONTGOMERY WATSON



Thomas A. Blair, P.E.
Project Engineer

Enclosures: Memo: Y2K Compliance – ACS Groundwater Treatment Plant
Table : Compliance of Individual Treatment Plant Components
Various Manufacturer's Cut Sheets Describing Y2K Compliance

cc:\ Kevin Adler, U.S EPA Region V
Peter Vagt
Todd Lewis
Rob Adams

TAB/tab/PJV
j:\1252\042\Y2K\125204225a001.doc
1252042.25813003

SDMS US EPA REGION V

COLOR-RESOLUTION - 2

IMAGERY INSERT FORM

The following page(s) of this document include color or resolution variations. Unless otherwise noted, these pages are available in monochrome. The original document is available for viewing at the Superfund Records Center.

SITE NAME	AMERICAN CHEMICAL SERVICES
DOC ID #	151750
DESCRIPTION OF ITEM(S)	Y2K COMPLIANCE TABLE
PRP	RMD - AMERICAN CHEMICAL SERVICES
DOCUMENT VARIATION	___ COLOR **OR** _X_ RESOLUTION
DATE OF ITEM(S)	NONE
NO. OF ITEMS	2
PHASE	REM
OPERABLE UNITS	
PHASE (AR DOCUMENTS ONLY)	___ Remedial ___ Removal ___ Deletion Docket ___Original ___ Update # ___ Volume ___ of ___
COMMENT(S)	

U.S. EPA Y2K Compliance for ACS Water Treatment Plant in Griffith Indiana

Model 385+ pH/ORP Sensor	Rosemount Analytical, Inc. ph: (949) 863-1181	John Wright Ext.226	Yes	- -	No time/date stamp -
Waterproof pHTester 1 & 2	Oakton Instruments, Inc. ph: (888) 462-5866 (847) 247-2985	Sarah	Yes	- -	See Letter No time/date stamp
Model 396P TUpH combination pH/ORP sensor	Rosemount Analytical, Inc. ph: (949) 863-1181	John Wright Ext. 226	Yes	- -	No time/date stamp -
Model 3081 and 81 pH/ORP microprocessor analyzer	Rosemount Analytical, Inc. ph: (949) 863-1181	John Wright Ext. 226	Yes	- -	No time/date stamp -
Model 54 pH/ORP microprocessor analyzer	Rosemount Analytical, Inc ph: (949) 863-1181	John Wright Ext. 226	Yes	- -	No time/date stamp -
Signet 2720 pH/ORP pramplifier	George Fischer, Inc. ph: (714) 731-8800	Barbara Sipe Ext. 255	Yes	- -	No time/date stamp -
Industrial pH sensor model 605	IC Controls Ltd. ph: (800) 265-9161	Rosalie Fitzpatrick email: rfitzpatrick@iccontrols.com	Yes	- -	No time/date stamp -
Model 10D1475Y	Baily, Fisher, and Porter ph: (215) 674-6000	www.ebpa.com/y2k username: MWSS pswd: y2kcom	Yes	- -	See Printout No time/date stamp
Model VFA/VFB	Dwyer Instruments, Inc. W.E. Anderson Div. ph: (219) 879-8000	www.dwyer-inst.com/y2k.html	Yes	- - -	See Printout No time/date stamp -
Sho-Rate "150" and "50" series sizes 1-6 and "50" series size 8 low-flow indicators	Emerson Electric Co. Brooks Instrument Division ph: (215) 362-3500	Susanne Mullineaux Ext. 3528	Yes	- - -	No time/date stamp Year-2000 warranty available upon request -
Promag 30 Electromagnetic Flow Measuring System	Endress and Hauser, Inc. ph: (317) 535-7138	Vivian Trovil Ext. 324	Yes	- -	Not real time aware -
Compaq Presario 4112 P120	Compaq ph: (800) ATCOMPAQ	www.compaqsq1.t1.com/y2k	Not Ready	Downloadable Upgrade or Replacement	- -
Model PB16-1 pump with a model REM 1 D controller	U.S. Filter/Stranco ph: (815) 932-8154	Mark McTaggart	Yes	- -	No date/time stamp -
AR-F Series delay on make electronic timing relay	Syrelec ph: (972) 250-1647	Judy Clark Ext. 6722	Yes	- -	No real time clock -
XTC 340 Series	Moore Products Co. ph: (215) 646-7400	Edward H. Bell Ext. 2140 email: ehb@mpco.com	Yes	- -	No time/date stamp -
Model 575 Submersible Level Transmitter	Ametek, U.S. Gauge Division, PMT Products ph: (215) 355-6900	Jeane Hamilton	Yes	- -	No time/date stamp -
Drexelbrook Ztron™ Level Control 502-3000 Series With a 402-3000 Transmitter	Drexelbrook Engineering Co. ph: (215) 674-1234	Factory Service ph: (800) 527-6297	Yes	- -	No time/date stamp -
Signet model 8710 Compak pH Transmitter	George Fisher, Inc. ph: (714) 731-8800	Barbara Sipe Ext. 255	Yes	- -	No time/date stamp -
Signet model 2714 pH electrode, flat	George Fisher, Inc. ph: (714) 731-8800	Barbara Sipe Ext. 255	Yes	- -	No time/date stamp -
Model: SMT 420	Best Power Technology ph: (608) 565-2100	www.bestpower.com	Yes	- -	No time/date stamp -

SJS/JR/TAB
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SLC 500 (PLC) and associated I/O Cards	Allen Bradley www.ab.com	www.domino.automation.rockwell.com/ webstuff/y2k.nsf	Yes	- -	See Printout -
Filter Press PLC	U.S. Filter JWI ph: (616) 772-9011	Barb Schueler Eric Poindexter	Yes	- -	See letter -
UV/Ox Programmable Logic Controller (PLC)	Calgon Carbon Oxidation Technologies ph: (905) 477-9242	Mike Madigan Ext. 323	Yes	- -	No century date comparisons -
Flowtect™ Flaot Switch Model L4	Dwyer Instruments, Inc. W.E. Ansderson Div. ph: (219) 879-8000	www.dwyer-inst.com/y2k.html	Yes	- - -	See Printout No time/date stamp -
Models LS-1800, LS-1900, and LS-1950 Series	Gem Sensors Inc. ph: (800) 847-5691	www.gemsensors.com/homelevelswitch.html	Yes	- -	No time/date stamp -
GE Drive Model AF-300E$ Series	GE ph: (540) 387-7595	Kevin Keefe ph: (860) 747-7713	Yes	- -	No time/date stamp -
cat.# 490-0434	Radio Shack ph: (630) 682-8911	www.radioshack.com	Yes	- -	May need to be tested--See printout (Radioshack only offers opinion of compliance)
QRD series (part# 50118-101)	Coltec Industries Quincy Compressor Div. ph: (217) 222-7700	Jeff Coleman	Yes	- - -	See Printout No time/date stamp -
LOGO 230RC	Siemens Automation and Drives ph: (770) 740-3327	www.siemens.com/en	Yes	- -	See Printout -
Model 2000D, 316SS material, 1-1/2"x1" FNPT For: 15GPM@56 feet of water Motor: 1HP, 3450 RPM, 3 phase, 60 Hz, 230/460 volts, TEFC	R.S. Corcoran Co. ph: (815) 485-2156 (In IL) fax: (815) 485-5840	Bill Kramer ph: (800) 637-1067	Yes	- - -	Pumps P-1 and P-2 No time/date stamp
Model 3000D, 316SS material, 1-1/2"x1" FNPT For: 30GPM@96 feet of water Motor: 2HP, 3450 RPM, 3 phase, 60 Hz, 230/460 volts, TEFC	R.S. Corcoran Co. ph: (815) 485-2156 (In IL) fax: (815) 485-5840	Bill Kramer ph: (800) 637-1067	Yes	- - -	Pumps P-3, P-4 and P-5 No time/date stamp
Series 321, All iron construction, 1"x1-l/4"x6" FNPT For: 30 GPM@94 feet of water Motor: 2 HP, 3500 RPM, 3 phase, 60 Hz, 230/460 volts, TEFC	Aurora Pump ph: (630) 859-7000 fax: (630) 859-7060	Rick Lass	Yes	- - -	Pumps P-6, P-7 and P-8 See Printout -
Model 2000D, 316SS material, 1-1/2"x1" FNPT For: 30 GPM@34 feet of water Motor: 3/4 HP, 3450 RPM, 3 phase, 60 Hz, 230/460 volts, TEFC	R.S. Corcoran Co. ph: (815) 485-2156 (In IL) fax: (815) 485-5840	Bill Kramer ph: (800) 637-1067	Yes	- - -	Pumps P-9 and P-10 No time/date stamp
ARO Model 6661T4-844, Air diaphragm pump, 1.5" connections For: 100 GPM@120 psig max. pressure	Ingersoll-Rand Fluid Products ph: (419) 636-4242	www.ingersoll-rand.com	Yes	- - -	Pumps P-12 and P-13 *All ARO pumps are air operated No time/date stamp
Series E pump, model EC-080-1H-EA-PH-VS For: 3.3 GPH@100 psig Motor: 1 phase, 60 Hz, 120 volt, TEFC	Jaeco ph: (316) 265-0891	Mike West ph: (800) 877-7711	Yes	- - -	Pumps P-18, P-19 and P-20 (Sulfuric Acid Pumps) No time/date stamp
Series E pump, model EC-080-1H-EA For: 3.3 GPH@100 psig Motor: 1 phase, 60 Hz, 120 volt, TEFC	Jaeco ph: (316) 265-0891	Mike West ph: (800) 877-7711	Yes	- - -	Pumps P-21, P-22 and P-23 (Sodium Hydroxide Pumps) No time/date stamp
ProMinent gamma G/4a and gamma G/5a	ProMinent Fluid Controls, Inc. ph: (412) 787-2484	Steve Vanderlippe	Yes	- -	No time/date stamp -
Model 2950ss submersible sump pump	Simer Pump Company	www.rivco.com	Yes	- -	No time/date stamp -

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MEMORANDUM

MONTGOMERY WATSON

To: Tom Blair **Date:** July 28, 1999

cc: Pete Vagt,
Todd Lewis

From: Scott Sherman
Subject: Y2K compliance – ACS Groundwater Treatment Plant

Tom-
In response to your memo regarding the U.S. EPA's Year 2000 (Y2K) enforcement policy, I have completed an evaluation of equipment at the ACS groundwater treatment plant (GWTP). Below is a general list of the equipment that has been evaluated:

1. pH probes and controllers
2. Magnetic Flow Meters
3. UV/Ox Programmable Logic Controller (PLC)
4. Filter Press PLC
5. Man/Machine Interface (desktop computer)
6. Stranco polymer blending unit
7. Timers
8. Pressure Transmitters
9. Uninterruptible Power Source
10. Allen Bradley SLC 500 (PLC) and associated I/O Cards
11. Liquid level switches
12. Variable frequency drives
13. Auto Dialer
14. Air Compressor
15. Sand Filter Backwash LOGO® Unit (See Todd for Information)
16. Metering Pumps

Please find the attached spreadsheet for a detailed list, which includes model numbers, manufacturers and status of the equipment.

The evaluation consisted of the following:

- Reviewing cut-sheets for each piece of equipment to determine if the equipment relies on date-sensitive programming
- Calling manufacturers to find out if equipment is Y2K compliant

- If equipment is not Y2K compliant, requesting information on upgrades, replacement or testing of equipment
- Requesting from manufacturers written verification of their product's Y2K compliance status

Please find enclosed the manufacturer's verification letters.

The only pieces of equipment that should be affected by Y2K are those which depend on real time internal clocks to operate. Below is a comprehensive list of such pieces of equipment:

- Man machine interface (Compaq Presario 4112 P120)
- Auto dialer (cat.# 490-0434)
- SLC 500 (PLC) and associated I/O cards (model: 1747-L543 SLC 5/04)
- Filter Press PLC (model: 30-1)
- Sand filter backwash LOGO unit (model: LOGO 230 RC)

Based on manufacturer's responses, it has been determined that the GWTP at ACS is in compliance with the U.S. EPA Y2K enforcement policy with the exception of the following issues:

- The man/machine interface is not ready for Y2K
- The auto dialer needs to be tested manually to ensure Y2K readiness

In order to solve these problems, both of the above manufacturers have been contacted and have supplied information regarding the steps necessary in order to be ready for Y2K. The actions that will be taken are as follows:

- The man/machine interface will either be upgraded or replaced
- The auto dialer will be manually tested according to steps supplied by the manufacturer, and if necessary, replaced

Due to the fact that we did not make any of the equipment involved in this evaluation, I can only depend on the information provided by individual manufacturers, and I am unable to make any guarantees. However, upon completion of these steps, the GWTP at ACS will, to the best of my knowledge, be in conformance with the Year 2000 Information and Readiness Disclosure Act of 1998 (Public Law 105-271, 112 Stat.2386) enacted on October 19, 1998.

Fax Cover Sheet 604

Rosemount Analytical
2400 Barranca Parkway
Irvine, CA 92606

TO:	Mr. Scott Sherman	**DATE:**	July 14, 1999
CO:	**Montgomery Watson (IL)**	**TIME:**	3:52 PM PST
FAX:	(630) 691-5133	**PHONE:**	(949) 863-1181, x226
FROM:	John Wright Rosemount Analytical	**FAX:**	(949) 474-7250
REF:	Year 2000 Readiness Disclosure Compliance Statement		

NUMBER OF PAGES INCLUDING COVER SHEET: [9]

Dear Mr. Sherman:

Rosemount Analytical, Uniloc Division, certifies that all instruments designed and manufactured by the Uniloc Division, do not have calendars. No instruments manufactured by Uniloc Division keep track of days, months, or years.

This has been validated by reviewing all test and calibration procedures. In calibrating and setting up instruments for shipping, there is not a step in any procedure to enter a date.

For your convenience, we have attached a list of all liquid product names that we manufacture at Uniloc Division, all of which are covered by this letter's compliance statement.

This Year 2000 Readiness Disclosure statement, the attachments, and all previous Year 2000 statements provided by Rosemount Analytical, Uniloc Division, are designated as "Year 2000 Readiness Disclosures" for the purpose of the U.S. Year 2000 Information and Readiness Disclosure Act of 1998 (Public Law 105-271). We will post any additional information on our Internet website, **www.RAuniloc.com**.

Very truly yours,

John Wright/psg

John Wright
Vice President of Marketing

JW/psg

P.S. This statement includes our 54 pH/ORP analyzer; 81 pH analyzer; 385+ pH sensor; 396 TupH sensor; & 3081 pH transmitter.

Rosemount Analytical – Uniloc Division
2400 Barranca Parkway
Irvine, CA 92606
http://www.rauniloc.com
Phone: (949) 863-1181

Rosemount Analytical - Uniloc

September, 1998

RE: Rosemount Analytical – Uniloc's Year 2000 Readiness

Dear Uniloc Customer:

As the year 2000 approaches, the issues and challenges of moving to the new millennium are becoming increasingly more visible. Uniloc recognized its responsibility to properly address this challenge and began a project to validate product performance relating to year 2000 issues several years ago. While our products have been designed for use regardless of the century designation in a date, Uniloc understands the importance of the global support infrastructure we have built over the past twenty years and has taken the action necessary to ensure your continued success with our products.

When Uniloc started this process, there were no industry-defined standards for being "Year 2000 Ready." Uniloc articulated its own standards, based on date issues found in ISO, ANSI, FIPS, and BTI, and utilized software developed in-house, as well as software that was recently provided by National Software Testing Laboratory (www.nstl.com). Application of this definition, through a carefully defined process, has validated that our shipping products are Year 2000 ready. **This same definition has been used to validate that our internal business system is capable of providing the same quality of service and support to our customers and business partners beyond the year 2000.**

Sincerely,

Micheal Mims
LAN Administrator, Uniloc

2

Liquid Products of Rosemount Analytical-Uniloc

SENSORS

*** All Rosemount Analytical, Uniloc products are Year 2000 compliant.**

pH
- 300, 300 Cartridges
- 320B
- 320HP
- 328A
- 381, 381+
- 385, 385+
- 389
- 396, 396 P, 396 R
- 397
- 399
- Electrodes for 381 & 320
- Electrodes for Series III
- Flat Glass 396, 396 P, 396 R

Conductivity
- 112
- 140
- 141
- 142
- 150
- 121
- 222
- 225
- 226
- 228
- 400 Series
- Endurance 401,402,403
- PD Series
- Cells, Ball Valve
- Cells, Epoxy
- Cells, Glass
- Cells, II (SS) X1
- Solu Cube Sensors, 2701

Chlorine
- 450
- 499A Cl
- 521240B
- 90243-705
- 90253-706
- 921643
- 921243 H
- KR921243
- KR921243H
- KR921643

Dissolved Oxygen
- 430
- 499A DO
- 921103

Ozone
- 499A OZ

INSTRUMENTS

pH

54 pH/ORP	*1002
1054B pH	*1003
1054B ORP	*1050
SCL-P & SCL-Q	*1054A's
81 pH	*2054's
1181 pH & 1181 ORP	*942
2081 pH	*943
3081 pH/ORP	*960

Dissolved Oxygen

1054B DO	*803
1181 DO	*1054A DO
1181 PB	
1181 SO	

1-800-854-8257

The right people, the right answers, right now.

On-line ordering is also available on our web site at www.RAuniloc.com.

Conductivity

54 C	
1054B C	*711
1054B LC	*723
1054B R	*733
1054B T	*750
1054B %	*1054A's
81 T	*2054's
1181 C	
1181 T	
2081 C	
3081 C	
3081 T	
SCL-C & SCL-R-Solu Comp	
BB-1000	
BB-2000	
CH16D	
CH16RB	
SC-19A	*Solu Bridge
SC-19C	*Solu Meter
Solu Cube, 2700	

Chlorine

925	*853
1054B CL	*1054A TFC
1181 RC	
DC925	
PWC921	

Humidity
- EEJA
- HIC
- HTC
- Humichek
- TR Series

Ozone

1054B OZ	*940
	*1054A OZ

Refractometers
- REFRACT-DS

Turbidity
- PT Series
- T-A2120

* Obsolete products

Please review flip side for other Fisher-Rosemount Products.

Looking for Fisher-Rosemount Products?

Analytical - Liquid **ROSEMOUNT ANALYTICAL**

UNILOC DIVISION 1-800-854-8257

Chlorine
Conductivity
Dissolved Oxygen
Humidity
Ozone
pH
Refractometry
Turbidity

Analytical - Gas

PROCESS ANALYTIC DIVISION 1-800-433-6076

Boiler Control
Combustion Control
Emissions Monitoring
Flue Gas
Gas Chromatograph
Laser Raman
Nondispersive Infrared
Opacity
Oxygen
Ultra Violet

Analytical - Laboratory

TEKMAR- DORHMANN 1-800-543-4461

Air (Canisters &Tubes)
Chlorine
Headspace
Nitrogen
Purge and Trap
Solid Phase Extraction
Sulfur
Thermal Desorption
TOC
TOX

Pressure, Temperature, Flow, & Level Transmitters **ROSEMOUNT**

ROSEMOUNT 1-800-999-9307 – Measurement Division

AMS

ROSEMOUNT 1-800-999-9307

Valves **FISHER**

FISHER CONTROLS 1-800-558-5853

Ball
Butterfly
Control

Positioners

FISHER CONTROLS 1-800-558-5853

Controllers

FISHER CONTROLS 1-800-558-5853

Digital valve
Level
Pneumatic Pressure

Regulators

FISHER CONTROLS REGULATORS 1-800-558-5853

House Service
Natural Gas
Pressure
Steam
Tank Blanketing Systems
Propane

Field Automation

FISHER CONTROLS REGULATORS 1-800-558-5853

Gas Flow Computers
Remote Terminal Units

Process Automation Solutions **FISHER-ROSEMOUNT**

FISHER-ROSEMOUNT SYSTEMS 512-835-2190

DeltaV
Provox
RS3

Petroleum measurement products

FISHER-ROSEMOUNT PETROLEUM 1-800-FLOWSPC

Provers
Custody Transfers
Metering Skids

Flow measurement & Control **Brooks Instrument**

BROOKS INSTRUMENT 215-362-3500

Electromagnetic
Flow Controllers
Positive Displacement
Pressure Regulators
Rotometer
Sight Flow
Thermal Mass Flow
Variable Area Flowmeter

Coriolis-based measurement products

MICRO MOTION 1-800-522-MASS **Micro Motion**

Flow
Density
Viscosity

Plug & Ball valves **XOMOX**

XOMOX 1-800-749-1735

TUFLINE Brand

Actuators

XOMOX 1-800-749-1735

Matryx Brand

P[illegible] previous flip side for Rosemount Analytical Uniloc Products.

YEAR 2000 COMPLIANCE VERIFICATION REPORT

ROSEMOUNT ANALYTICAL INC., UNILOC DIVISION

1.0 Product Model Number: Model 54 Instrument Family

2.0 The product listed above has been subjected to Year 2000 (Y2K) compliance verification in accordance with Procedure DoP-40-019 Revision B. The results of that verification are shown below.

2.1. Does the product have any memory that could be used to store a date?
YES ●___ NO ____
If yes, proceed to item 2.2. If no, proceed to item 2.4.1.

2.2. Does the product have a way of entering a date by remote control or key pad?
YES ●___ NO ____
If yes, proceed to item 2.3. If no, proceed to item 2.4.1.

2.3. Enter the following dates and check product performance.

September 9, 1999	09/09/1999
December 31, 1999	12/31/1999
January 1, 2000	01/01/2000
January 10, 2000	01/10/2000
February 28, 2000	02/28/2000
February 29, 2000	02/29/2000
February 28, 2004	02/28/2004
February 29, 2004	02/29/2004
February 28, 2020	02/28/2020
February 29, 2020	02/29/2020

Did the product malfunction with any of the above dates entered into memory?
YES ___ NO ●___
If yes, proceed to item 2.4.2. If no, proceed to item 2.4.1.

2.4. Test Results

2.4.1. If the answers to 2.1., 2.2., or 2.3. are no then the product is Y2K compliant.
The product is Y2K compliant. ☒

2.4.2. If the answer to 2.3. is yes, then the product is not Y2K compliant.
The product is not Y2K compliant. ☐

Verification Person: Wallace Browning Signature W. Wallace Browning
Date: 12/15/98

YEAR 2000 COMPLIANCE VERIFICATION REPORT

ROSEMOUNT ANALYTICAL INC., UNILOC DIVISION

1.0 Product Model Number: Model 81 Instrument Family

2.0 The product listed above has been subjected to Year 2000 (Y2K) compliance verification in accordance with Procedure DoP-40-019 Revision B. The results of that verification are shown below.

2.1. Does the product have any memory that could be used to store a date?
YES ●___ NO ____
If yes, proceed to item 2.2. If no, proceed to item 2.4.1.

2.2. Does the product have a way of entering a date by remote control or key pad?
YES ●___ NO ____
If yes, proceed to item 2.3. If no, proceed to item 2.4.1.

2.3. Enter the following dates and check product performance.

September 9, 1999	09/09/1999
December 31, 1999	12/31/1999
January 1, 2000	01/01/2000
January 10, 2000	01/10/2000
February 28, 2000	02/28/2000
February 29, 2000	02/29/2000
February 28, 2004	02/28/2004
February 29, 2004	02/29/2004
February 28, 2020	02/28/2020
February 29, 2020	02/29/2020

Did the product malfunction with any of the above dates entered into memory?
YES ___ NO ●___
If yes, proceed to item 2.4.2. If no, proceed to item 2.4.1.

2.4. Test Results

2.4.1. If the answers to 2.1., 2.2., or 2.3. are no then the product is Y2K compliant.
The product is Y2K compliant. ☒

2.4.2. If the answer to 2.3. is yes, then the product is not Y2K compliant.
The product is not Y2K compliant. ☐

Verification Person: Wallace Browning Signature Wallace Browning
Date: 12/15/98

YEAR 2000 COMPLIANCE VERIFICATION REPORT

ROSEMOUNT ANALYTICAL INC., UNILOC DIVISION

1.0 Product Model Number: Model 385+ Sensor Family

2.0 The product listed above has been subjected to Year 2000 (Y2K) compliance verification in accordance with Procedure DoP-40-019 Revision B. The results of that verification are shown below.

2.1. Does the product have any memory that could be used to store a date?
YES ___ NO ●___
If yes, proceed to item 2.2. If no, proceed to item 2.4.1.

2.2. Does the product have a way of entering a date by remote control or key pad?
YES ___ NO ___
If yes, proceed to item 2.3. If no, proceed to item 2.4.1.

2.3. Enter the following dates and check product performance.

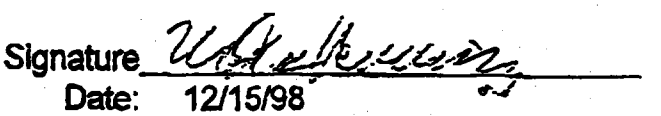
September 9, 1999	09/09/1999
December 31, 1999	12/31/1999
January 1, 2000	01/01/2000
January 10, 2000	01/10/2000
February 28, 2000	02/28/2000
February 29, 2000	02/29/2000
February 28, 2004	02/28/2004
February 29, 2004	02/29/2004
February 28, 2020	02/28/2020
February 29, 2020	02/29/2020

Did the product malfunction with any of the above dates entered into memory?
YES ___ NO ___
If yes, proceed to item 2.4.2. If no, proceed to item 2.4.1.

2.4. Test Results

2.4.1. If the answers to 2.1., 2.2., or 2.3. are no then the product is Y2K compliant.
The product <u>is</u> Y2K compliant. ☒

2.4.2. If the answer to 2.3. is yes, then the product is not Y2K compliant.
The product <u>is not</u> Y2K compliant. ☐

Verification Person: Wallace Browning Signature 
Date: 12/15/98

YEAR 2000 COMPLIANCE VERIFICATION REPORT

ROSEMOUNT ANALYTICAL INC., UNILOC DIVISION

1.0 Product Model Number: Model 396 Sensor Family

2.0 The product listed above has been subjected to Year 2000 (Y2K) compliance verification in accordance with Procedure DoP-40-019 Revision B. The results of that verification are shown below.

2.1. Does the product have any memory that could be used to store a date?
YES ___ NO ●___
If yes, proceed to item 2.2. If no, proceed to item 2.4.1.

2.2. Does the product have a way of entering a date by remote control or key pad?
YES ___ NO ___
If yes, proceed to item 2.3. If no, proceed to item 2.4.1.

2.3. Enter the following dates and check product performance.

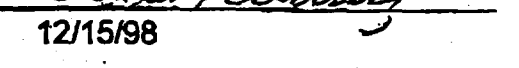
September 9, 1999	09/09/1999
December 31, 1999	12/31/1999
January 1, 2000	01/01/2000
January 10, 2000	01/10/2000
February 28, 2000	02/28/2000
February 29, 2000	02/29/2000
February 28, 2004	02/28/2004
February 29, 2004	02/29/2004
February 28, 2020	02/28/2020
February 29, 2020	02/29/2020

Did the product malfunction with any of the above dates entered into memory?
YES ___ NO ___
If yes, proceed to item 2.4.2. If no, proceed to item 2.4.1.

2.4. Test Results

2.4.1. If the answers to 2.1., 2.2., or 2.3. are no then the product is Y2K compliant.
The product is Y2K compliant. ☒

2.4.2. If the answer to 2.3. is yes, then the product is not Y2K compliant.
The product is not Y2K compliant. ☐

Verification Person: Wallace Browning Signature 
Date: 12/15/98

YEAR 2000 COMPLIANCE VERIFICATION REPORT

ROSEMOUNT ANALYTICAL INC., UNILOC DIVISION

1.0 Product Model Number: Model 3081 Instrument Family

2.0 The product listed above has been subjected to Year 2000 (Y2K) compliance verification in accordance with Procedure DoP-40-019 Revision B. The results of that verification are shown below.

2.1. Does the product have any memory that could be used to store a date?
YES ●___ NO ____
If yes, proceed to item 2.2. If no, proceed to item 2.4.1.

2.2. Does the product have a way of entering a date by remote control or key pad?
YES ●___ NO ____
If yes, proceed to item 2.3. If no, proceed to item 2.4.1.

2.3. Enter the following dates and check product performance.

September 9, 1999	09/09/1999
December 31, 1999	12/31/1999
January 1, 2000	01/01/2000
January 10, 2000	01/10/2000
February 28, 2000	02/28/2000
February 29, 2000	02/29/2000
February 28, 2004	02/28/2004
February 29, 2004	02/29/2004
February 28, 2020	02/28/2020
February 29, 2020	02/29/2020

Did the product malfunction with any of the above dates entered into memory?
YES ___ NO ●___
If yes, proceed to item 2.4.2. If no, proceed to item 2.4.1.

2.4. Test Results

2.4.1. If the answers to 2.1., 2.2., or 2.3. are no then the product is Y2K compliant.
The product is Y2K compliant. ☒

2.4.2. If the answer to 2.3. is yes, then the product is not Y2K compliant.
The product is not Y2K compliant. ☐

Verification Person: Wallace Browning Signature Wallace Browning
Date: 12/15/98

MESSAGE

Date: 7-20-99
No. of pages: 3
(including this page)

Cole-Parmer
Instrument Company
625 E. Bunker Court
Vernon Hills, Illinois USA 60061
Fax: 1-847-247-2985
Phone: 1-847-549-7600

To:
Fax No.: 630-691-5133
Dial Manually
Name: [redacted]
Of:
Company: Montgomery/Watson
State/Country:
Phone No.:
Subject:

From:
Name: Kaye Beyer
Dept.: Admin Service
Title:
Extension: 5062

Answer Required ☐ Yes ☒ No

Y2K Info follows
for Oakton Products

Cole-Parmer Instrument Company
625 East Bunker Court, Vernon Hills, Illinois 60061-1844
Phone: 1-847-549-7600 Fax: 1-847-247-2929 E-mail: info@coleparmer.com Web site: www.coleparmer.com

Year 2000 Readiness Disclosure*

July, 1999

Dear Valued Customer,

Cole-Parmer Instrument Company has long emphasized customer service and maintaining good customer relationships. We are committed to preventing the Year 2000 problem from getting in the way of our service. No organization can guarantee that its computer and telecommunications systems won't be affected by Y2K. Even if we are fully Y2K compliant, we may be affected by failures in some other organization's systems – government agencies, suppliers, banks, transportation firms and many others in our supply chain. Perhaps everything will work out fine, with only minor problems. We'll find out by January 1, 2000. However, we can assure you that we are doing our utmost to minimize the disruption to you, our customer. We can tell you what we are doing and will commit to do to ensure that you are as protected as possible from the impact of Y2K. We have put together a project plan and are moving aggressively in meeting the target dates.

- **Our current products**: We have contacted all of our product suppliers and have acquired information on products from our current suppliers. As we add new products to our product line, and we are doing so constantly, we are determining their Y2K status. If a product is not compliant or we have been unable to determine the Y2K status of a product, we'll tell you when you order. You can then decide for yourself how important it is to you. In some instances we will be able to tell you how it is "not compliant." Any information provided by Cole-Parmer about products is based on information supplied by our suppliers.

- **Products you already ordered from us**: If you need the Y2K status of an item you ordered in the past, send a letter, fax, or e-mail with the name of your company, the company address and fax number, the Cole-Parmer item number and the date the item was purchased to Helen Schabes. She'll see that it is researched and you'll receive a response shortly after she does. You can fax Helen at 847/247-2985 or e-mail her at y2k@coleparmer.com. Cole-Parmer stands behind the products we sell; if you have purchased a product from us and it fails because of Year 2000, despite our best efforts and yours, we will replace the product. In addition, a product's compliance may depend on the way the product has been integrated into your system. You must verify this yourself.

- **Our suppliers**: We have contacted all of our suppliers. All of our current item suppliers have responded and we are following up with them as they complete their Y2K project plans. We are continuously adding new suppliers, and we have a system to evaluate their Y2K readiness as well.

- **Our computer systems and equipment**: We have inventoried and evaluated all of our Information Technology systems and equipment. We started working on this issue in 1992. As we upgraded our computer systems, we incorporated either a 4-digit year or a 1-digit century into the databases and programs. This functionality already exists in the vast majority of the systems. Y2K programming for all systems has been completed and all programs have been tested and put back into production. We are carefully enforcing standards to prevent new problems from being introduced. Our PC, Macintosh, and telecommunications hardware, software, and networks have been inventoried and the status of each has been documented. All updates currently available have been applied. As you may know, some software and hardware companies are still finding problems, so we can't vouch that there won't be additional changes.

- **Our embedded systems**: We have identified all embedded systems throughout the building and are have determined their status from our suppliers. We have implemented updates where needed and where available. Updates still to be done will not impact our ability to carry out our core business processes.

* This document is issued under the "Year 2000 Information and Readiness Disclosure Act"

Cole-Parmer Instrument Company
625 East Bunker Court, Vernon Hills, Illinois 60061-1844
Phone: 1-847-549-7600 Fax: 1-847-247-2929 E-mail: info@coleparmer.com

- **Incoming and outgoing data streams:** We have identified all incoming and outgoing data streams and have come to agreements and understandings to be sure that they do not corrupt our data and that we do not corrupt another company's data. We are able to use the 4010 format for EDI, if you wish.
- **Budget:** Substantially all costs related to the company's year 2000 initiative are expensed as incurred and funded through operating cash flows.
- **Contingency plans:** We have developed contingency plans for failures, both internally and as a result of suppliers. We have already put some of the plans into effect for any possible emergency. In case of such failures, we will not be able to provide the level of service that we currently provide. These plans are much like insurance policies: we sincerely hope we will never have occasion to use them, but we need them just in case.

At this time, we are confident that we are well prepared for Y2K. However, there are elements in our supply chain that are beyond our control. In addition, issues may surface that we are not aware of at this time. For this reason, we will not sign year 2000 certification letters which imply warranty of our suppliers' systems in addition to those systems under our control. I am sure you can appreciate our position on this matter.

You can get information, including a list of the products that we know are not currently Y2K compliant, through our Facts on Demand system (dial 800/410-6090 and request document 09803) or through our Web site (www.coleparmer.com/Y2k/Y2k.htm). Please recognize that our Year 2000 compliance review is an on-going process and continually evolving. Consequently, there can be no assurance that our response will be the same later. The statements in this letter are retroactive in the sense they supersede all prior written and oral statements made by Cole-Parmer to its customers.

We ascribe to the belief that when it comes to the Year 2000 none of us will be successful unless most of us are successful. We want you to be successful. Maintaining excellent working relationships with our customers is paramount to Cole-Parmer. We hope we have proved this to you over and over in the past. Rest assured that the year 2000 will not bring any disruption in that relationship.

Sincerely,

JoAnn Budde
Director, Business Systems
Year 2000 Project Coordinator
Jbudde@coleparmer.com

Glenn Doering
Director, Marketing Operations
Year 2000 Project Database Administrator
Gdoering@coleparmer.com

6

GEORGE FISCHER +GF+
Piping Systems

Fax Memorandum

Tustin, July 14, 1999
Y2000 fax.dot

Tel: (714) 731-8800, Ext. 255
Fax: (714) 731-5770
E-mail: barbara.sipe@us.piping.georgefischer.com

Fax to: [redacted]
Montgomery Watson
Edison, IL
fax: 630-691-5133

1 / 3 Page(s)

From: Barbara Sipe

Re: +GF+ SIGNET Year 2000 Compliance

Following please find information regarding the Year 2000 Compliance of +GF+ SIGNET products.

Sincerely,

Barbara Sipe (via modem)
Sales Administration

14 October 1998

+GF+ SIGNET Year 2000 Compliance

With the approach of the new millenium, there is an increasing focus on the Year 2000 (Y2K) bug in which the representation of a date in a two digit format may affect data calculations, displays, or interfaces with the date change from December 31, 1999 to January 1, 2000.

+GF+ SIGNET has prepared the following statement to assist our customers with their Year 2000 Product Compliance requirements:

> **The functionality and performance of all +GF+ SIGNET products will be unaffected by the Year 2000 date change. All current and past +GF+ SIGNET products do not use date information in any calculations or interfaces and will as such not be affected by the Year 2000 date change.**

In addition, +GF+ SIGNET is currently completing steps in an internal Year 2000 program of critical business processes, applications, and critical suppliers to ensure the continuation of products and services.

Shahab Vahdani

+GF+ SIGNET Quality Assurance Manager

If you have additional questions, please contact Shahab Vahdani at:

e-mail: shahab.vahdani@gfsignet.com

phone: (626) 571-2770 ex: 120

fax: (626) 573-2057 Attn: Shahab Vahdani

IC CONTROLS

Quality Water Analysis Equipment

pH / ORP
CONDUCTIVITY
DISSOLVED OXYGEN
STANDARDS

July 16th, 1999

Montgomery-Watson
Addison, IL

Fax# 1-630-691-5133

Attn: Scott Sherman

RE: Year 2000 Readiness

Dear Customer,

We are writing in response to your request for information as to the approach IC Controls is taking to ensure that our products and our operation are Year 2000 compliant. We are endeavoring to ensure that our equipment, systems and operations are Year 2000 compliant.

IC Controls can assure you that there is zero risk from using IC Controls manufactured products in the Year 2000. Our existing IC Controls manufactured products do not have a date dependant clock/time keeper in them and are therefore unaffected by the millennium change. New products under development by IC Controls are being programmed to be year 2000 compliant.

IC Controls is a manufacturer and is based out of one location. We have upgraded all of our major and many of our incidental programs to Year 2000 compliant versions and are currently running on them. This includes our Business software (which governs our accounting, order entry, purchase orders, inventory, work flow and various analysis functions), our major data retrieval systems, as well as many other incidental products which may affect our daily operations.

As a valued customer, be assured that we are making all reasonable efforts to ensure that the transition into the millennium proceeds smoothly and that provision of our products and services will remain unchanged.

On Behalf of IC Controls,

Bonnie Nygaard

for: Rosalie Fitzpatrick, EXT.115
YEAR 2000 COORDINATOR
FINANCE & ACCOUNTING MANAGER
e-mail: rfitzpatrick@iccontrols.com

filename: y2kready.doc

The following Year 2000 Readiness Disclosure reflects the known status as of **12 July 1999 9:01 EST** and is, to the best of our knowledge, correct. This information is subject to change without notice and should be periodically reverified. This summary report contains 697 finds.

EBPA IS PROVIDING THIS INFORMATION TO YOU ON AN "AS IS" BASIS. NO WARRANTY OF ANY KIND, WHETHER EXPRESS, STATUTORY OR IMPLIED (INCLUDING WITHOUT LIMITATION, WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM COURSE OF DEALING OR USAGE OF TRADE), SHALL APPLY.

* - For a more complete explanation of the Compatibility Levels given below, please refer to the "Overview and Definitions" web page.

Compatibility Level
C = Compatible
U = Compatible with Update
N = Not Compatible
A = Under Assesment
NTP=No Testing Plan (Potentially Non-Compatible)
New as of 25 June 1998
R = Year 2000 Ready
FC = Functionally Compatible
CH =Compatible on Year 2000 Compatible hardware

Product ID	Minimum Compatible Rev	Product Description	Comments	Compatibility Level
10A1018		Laboratory Flowmeter		R
10A1187		Glas Tube Flowmeter		R
10A1197		Glas Tube Flowmeter		R
10A1198		Glas Tube Flowmeter		R
10A1227 Series		Armored Purge Meter		R
10A1250 Series		High capacity purge meter		R
10A1300 Series		Flow indicating meter		R
10A2227 Series		Dial flow indicator		R
10A2235 Series		Ratosite Flow indicator		R

10A3135/7		Purgemeter SNAP IN		R
10A3220		Armored Flowmeter		R
10A3220 Series		Armored Purgemeter		R
10A3225		Armored Flowmeter		R
10A3239S		Purge Meter		R
10A3250		Armored Flowmeter		R
10A3255		Armored Flowmeter		R
10A3260		Plastic Purge Meter		R
10A3500 Series		Indicating Flowrator		R
10A3600 Series		Indicating Flowrator		R
10A4500 Series		Master indicating flowrator		R
10A4600-PVC		Indicating Flowrator		R
10A5400 Series		Armored V/A meter		R
10A5400E		Armored Flowmeter		R
10A5450E		Armored Flowmeter		R
10A5460E		Armored Flowmeter	w/ HART	C
10A5470E		Armored Flowmeter		R
10A5480E		Armored Flowmeter	w/o HART	R
10A5480E		Armored Flowmeter	w/ HART	C
10A6100 Series		Global purgemaster		R
10A6130LK Series		Purgemaster lab kit		R
10AM2700		Tube Adapter Set		R
10AM3		Tube Adapter Set		R
10AM6141		Tube Adapter Set, Scale Length 3"		R

10AM6142		Tube Adapter Set, Scale Length 5"		R
10AM6144		Tube Adapter Set, Scale Length 1 1/2"		R
10AM6145		Tube Adapter Set, Scale Length 3"		R
10B1197		Glastube Flowmeter		R
10B1197		Glastube Flowmeter(oriflow)		R
10B1521		Bellows Manometer		R
10B2490		DP Transmitter		R
10B2491 Series		DP Transmitter		R
10B4500 Series		V/A Master Flowmeter		R
10C1510		Turbine Flowmeter		R
10C1512		Turbine Flowmeter		R
10C1516		Turbine Flowmeter		R
10D1416		Magnetic Flowmeter Primary		R
10D1418		Magnetic Flowmeter primary		R
10D1419		Magnetic Flowmeter primary		R
10D1420		Magnetic Flowmeter		R
10D1421		Magnetic Flowmeter		R
10D1422		Magnetic Flowmeter		R
10D1424		Magnetic Flowmeter		R
10D1425		MAG/X, Magnetic Flowmeter		R
10D1430		Magnetic Flowmeter Primary		R
10D1435		Magnetic Flowmeter primary		R
10D1440		MAG/I, Capacitance signal pick up		R
		MAG/X,		

10D1445		Capacitance signal pick up		R
10D1455		Magnetic Flowmeter		R
10D1462		Magnetic Flowmeter primary		R
10D1465		Magnetic Flowmeter primary	w/o HART	R
10D1465		Magnetic Flowmeter primary	w/HART	C
10D1472		Mini-Mag Mag Flowmeter Primary		R
10D1475		Mini Mag Mag Flowmeter	w/ HART	C
10D1475		Mini Mag Mag Flowmeter	w/o HART	R
10D1476		K-Mag Mag Flowmeter primary	w/ HART	C
10D1476		K-Mag Mag Flowmeter primary	w/o HART	R
10D1477		CK-Mag Mag Flowmeter primary	w/o HART	R
10D1477		CK-Mag Mag Flowmeter primary	w/ ART	C
10DE2111		Magnetic Flowmeter MAG/XE	w/o HART	R
10DE2111		Magnetic Flowmeter MAG/XE	w/ HART	C
10DE2112		Magnetic Flowmeter MAG/XE	w/o HART	R
10DE2112		Magnetic Flowmeter MAG/XE	w/ HART	C
10DE2311		Magnetic Flowmeter COPA/XE	w/o HART	R
10DE2311		Magnetic Flowmeter COPA/XE	w/ HART	C
10DE2312		Magnetic Flowmeter COPA/XE	w/o HART	R

10DE2312		Magnetic Flowmeter COPA/XE	w/ HART	C
10DK1425		MAG/X Flowmeter		R
10DP4111		Magnetic Flowmeter PARTI-MAG		R
10DS2111		Magnetic Flowmeter MAG-SM/ Fill-MAG		R
10DS2112		Magnetic Flowmeter MAG-SM/ Fill-MAG		R
10DS2112B		Magnetic Flowmeter MAG-SM/ Fill-MAG		R
10DS3111		Magnetic Flowmeter MAG-SM/ Fill-MAG		R
10DS3111D		Magnetic Flowmeter MAG-SM/ Fill-MAG		R
10DS3111E		Magnetic Flowmeter MAG-SM/ Fill-MAG		R
10DS3121		Flowmeter capacitive		R
10DX2000 Series		Magnetic Flowmeter primary		R
10DX2111		Magnetic Flowmeter MAG-XM		R
10DX2112		Magnetic Flowmeter MAG-XM		R
10DX2311		Magnetic Flowmeter MAG-XM		R
10DX2312		Magnetic Flowmeter MAG-XM		R
10DX2512		Magnetic Flowmeter MAG-XM		R
10DX3000 Series		Magnetic Flowmeter primary		R

10DX3111		Magnetic Flowmeter MAG-XM		R
10DX3121		Flowmeter capazitiv MAG-CM		R
10DX3122		Magnetic Flowmeter MAG-CK		R
10DX3131		Magnetic Flowmeter PARTI-MAG		R
10DX3300 Series		Mag meter with integral converter	w/o HART	R
10DX3300 Series		Mag meter with integral converter	w/ HART	C
10DX3311		Magnetic Flowmeter COPA-XM	w/ HART	C
10DX3311		Magnetic Flowmeter COPA-XM	w/o HART	R
10DX3321		Flowmeter capazitiv COPA-CM	w/o HART	R
10DX3321		Flowmeter capazitiv COPA-CM	w/ HART	C
10DX3322		Magnetic Flowmeter COPA-CK	w/o HART	R
10DX3322		Magnetic Flowmeter COPA-CK	w/ HART	C
10DX3711		Magnetic Flowmeter COPA-XM "d"	w/o HART	R
10DX3711		Magnetic Flowmeter COPA-XM "d"	w/ HART	C
10DX4_11		Primary XE-KIT		R
10DX4111		Magnetic Flowmeter MAG-XE	w/o HART	R
		Magnetic		

10DX4111		Flowmeter MAG-XE	w/ HART	C
10DX4300 Series		Mag meter with integral converter	w/ HART	C
10DX4300 Series		Mag meter with integral converter	w/o HART	R
10DX4311		Magnetic Flowmeter COPA-XE	w/o HART	R
10DX4311		Magnetic Flowmeter COPA-XE	w/ HART	C
10DX4611		Magnetic Flowmeter MAG-XE EEx	w/o HART	R
10DX4611		Magnetic Flowmeter MAG-XE EEx	w/ HART	C
10DX4711		Magnetic Flowmeter COPA-XE EEx	w/o HART	R
10DX4711		Magnetic Flowmeter COPA-XE EEx	w/ HART	C
10DX4811		Magnetic Flowmeter COPA-XE "d" remote	w/o HART	R
10DX4811		Magnetic Flowmeter COPA-XE "d" remote	w/ HART	C
10E1200 Series		Sight Flow Indicators		R
10E1400		Bull's Eye Sight Indicators		R
10E1400 Series		Bull's Eye Sight indicators		R
10F1060		Plastic insert flow tube		R
10F1070		Cast iron flanged flow tube		R
10F1080		Cast Iron Flanged Flow Tube		R
10F1090		Venturi flow tube		R
10F1940		Fiberglas Parshall flume		R

10F1980		Fiberglas Palmer-Bowlus flume		R
10LV1000 Series		Vortex Flowmeters		R
10LV2000 Series		Vortex Flowmeters		R
10LV3000 Series		Vortex Flowmeters		R
10MM1000 Series		Mass Flowmeter		R
10MM2000		Mass Flowmeter TRU Mass		R
10MM2000 Series		Mass Flowmeter		R
10SM1000 Series		Swirl Flowmeters	w/ HART	C
10SM1000 Series		Swirl Flowmeters	w/o HART	R
10SR1000 Series		Swirl Flowmeters	w/ HART	C
10SR1000 Series		Swirl Flowmeters	w/o HART	R
10ST1000 Series		Swirl Flowmeters	w/o HART	R
10ST1000 Series		Swirl Flowmeters	w/ HART	C
10VM1000 Series		Vortex Flowmeters	w/ HART	C
10VM1000 Series		Vortex Flowmeters	w/o HART	R
10VR1000 Series		Vortex Flowmeters	w/ HART	C
10VR1000 Series		Vortex Flowmeters	w/o HART	R
10VT1000 Series		Vortex Flowmeters	w/o HART	R
10VT1000 Series		Vortex Flowmeters	w/ HART	C
1320 Series		Recorder (Same as 51-1300 Series)		R
1340 Series		Recorder (Same as 51-1300 Series)		R
1390 Series		Recorder		R
1392 Series		Recorder		R

13C Series		Level Transmitter, Float		R
13D Series		Level Transmitter, Diff. pressure		R
13D2490 Series		Level Transmitter		R
13E Series		Level Transmitter, Sight Glass		R
13G Series		Level Transmitter, Electronic		R
13P Series		Level Measurement, Ga. Press. Type		R
17A1110 Series		Residual Chlorine Analyzer		R
17B1200 Series		Residual Chlorine Analyzer		R
17B2200 Series		Anachlor Residual Chlorine Analyzer		R
17B3200 Series		Anachlor Residual Chlorine Analyzer		R
17B4200 Series		Anachlor Residual Chlorine Analyzer		R
17B5000 Series		Chlortrol Residual Chlorine Analyzer		R
17C Series		Turbidity Meter		R
17CA1000 Series		Chloralert Chlorine Gas Leak Detector		R
17CA3000		Chloralert Plus Hazardous Gas Monitor		FC
17DO1000 Series		Dissolved Oxygen Transmitter		R
17E1100		Chlorine Gas Detector		R
17F Series		Fluorine Analyzers		R
17F5000 Series		Anafluor Fluoride Analyzer		R
17L Series		Ozone Analyzer		R
17L5000 Series		Dissolved Ozone Analyzer		R
17P Series		Permanganate Analyzer		R
		Potassium		

17P5000 Series		Permanganate Analyzer		R
17PC1000 Series		Anachlor II Residual Chlorine Analyzer		R
17PH Series		PH Transmitter Analyzer		R
17S Series		Analyzers		R
17SB5000 Series		Chlortrol 5000 Residual Chlorine Analyzer/Controller		R
17SC2000 Series		Analyzer		R
17SD4000 Series		ZCHLOR Dechlorination Controller		R
17T2000 Series		Portable Amperometric Titrator		R
2342 Series		Recorder Strip Chart		R
2344 Series	5.2	Recorder Strip Chart	Reset Time & Date on Jan 1, 2000	C
2345 Series	5.2	Recorder Strip Chart	Reset Time & Date on Jan 1, 2000	C
2346 Series	5.4	Recorder Strip Chart	Reset Time & Date on Jan 1, 2000	C
50-540-01		Basic Controller (GE-MAC)		A
50AP Series		Absolute Pressure Transmitters		R
50AP4100 Series		Absolute Pressure Transmitter (1151S) (1151S)		C
50AP4200 Series		Absolute Pressure Transmitter (2088) (2088)		C
50AP4300 Series		Absolute Pressure Transmitter (3051)		C
50AS3000		Adder/Subtractor		R
50BW1000		Load Converter		R
50CD9001		"CD-1" Magmeter Signal Converter		R
50CM2000		Converter MAG-CM	w/o HART	R

50CM2000		Converter MAG-CM	w/ HART	C
50DK1000		MAG-X PLUS, Converter		R
50DK3000		Mikro-MAG-X, Converter		R
50DP Series		Differential Pressure Transmitter		R
50DP4100 Series		Differential Pressure Transmitter (1151S)		C
50DP4200 Series		Differential Pressure Transmitter (2088)		C
50DP4300 Series		Differential Pressure Transmitter (3051)		C
50DPF Series		Pressure Transmitters		R
50DX1000		MAG-X converter		R
50DY1000		MAG-X converter		R
50E_1000		Converter MAG/I		R
50E_2000		Converter MAG/I		R
50E_4000		MAG-converter for piston pumps		R
50ED Series		Converter, Magnetic Flowmeter		R
50EI Series		Converter, Current to Pneumatic		R
50EK Series		Converter, Current to Current		R
50EL1000 Series		Two-wire Transmitter		R
50EM Series		Converter, mV to Current		R
50EN Series		Abs. Pressure Transmitter		R
50EP Series		Gauge Pressure Transmitter		R
50EQ Series		Differential Pressure Transmitter		R

50ER Series		Converter, Resistance to Current		R
50ES Series		Square Root Extractor		R
50ES1000 Series		Square Root Extractor		R
50ES2000 Series		Square Root Extractor		R
50ES3000 Series		Square Root Extractor		R
50ES6000		Conterter "Fill-Mag"		R
50ES7000		Converter "Fill-Mag"		R
50ET Series		T/C to Current Converters		R
50EU1000		F/I-Converter		R
50EW Series		Converter, Pneumatic to Current		R
50EZ Series		MAG Converter, Custody Transfer		R
50EZ7000		MAG/I Converter, custody Transfer		R
50GP4100 Series		Gauge Pressure Transmitter (1151S)		C
50GP4200 Series		Gauge Pressure Transmitter (2088)		C
50GP4300 Series		Gauge Pressure Transmitter (3051)		C
50HC1000 Series		HART Handheld Communicator	Telxon	A
50KM1000 Series		Chameleon Controller		R
50KM2000 Series		Chameleon Controller Mark II		FC
50LL Series		Level Transmitter		R
50LP2000 Series		Pressure Transmitter		R
50LP3000 Series		Pressure Transmitter		R
50LT4300		Level Transmitter		R

Series		(3051)		R
50LV1000 Series		Vortex Flowmeter		R
50LV2000 Series		Vortex Flowmeter		R
50LV3000 Series		Vortex Flowmeter electronics		R
50MM1000 Series		Mass Flowmeter electronics		R
50MM2000 Series		Mass Flowmeter electronics	w/ HART	C
50MM2000 Series		Mass Flowmeter electronics	w/o HART	R
50MM3000		Converter TRIO-MASS	w/o HART	R
50MM3000		Converter TRIO-MASS	w/ HART	C
50PL Series		Level Transmitter, rf type		R
50PR1000 Series		Magnetic Flowmeter Electronics		R
50PW Series		Pressure Transmitter, Pneumatic		R
50PZ Series		Magnetic Flowmeter electronics		R
50SD1000 Series		Magnetic Flowmeter electronics	w/o HART	R
50SD1000 Series		Magnetic Flowmeter electronics	w/ HART	C
50SF Series		Magnetic Flowmeter electronics		R
50SM Series		Magnetic Flowmeter electronics		R
50SM1000 Series		Converter MAG-SM	w/ HART	C
50SM1000 Series		Converter MAG-SM	w/o HART	R
50SP Series		Level Transmitter, rf type		R

		H type		
50SP1000 Series		Surge Protector		R
50UD1000		Converter SONOCON		R
50US1000 Series		Ultrasonic Flow Transmitter		R
50US2000 Series		Ultrasonic Level Transmitter		R
50US3000 Series		Ultrasonic Level/Flow Transmitter		R
50US4000 Series		Ultrasonic Level/Flow Transmitter		A
50VM1000 Series		Vortex Flowmeter electronics	w/ HART	C
50VM1000 Series		Vortex Flowmeter electronics	w/o HART	R
50X_1000		MAG-X converter		R
50X_2000		MAG-X converter		R
50XE4000 Series		Magnetic Flowmeter electronics	w/o HART	R
50XE4000 Series		Magnetic Flowmeter electronics	w/ HART	C
50XH1000		MAG/XM converter		R
50XM Series		Magnetic Flowmeter electronics	w/o HART	R
50XM Series		Magnetic Flowmeter electronics	w/ HART	C
50XM1000		MAG/XM converter	w/o HART	R
50XM1000		MAG/XM converter	w/ HART	C
50XM2000		Converter MAG-XM		R
50XO1000		MAG-XO, Converter		R
50XP1000		Converter PARTI-MAG		R

50XP2000		Converter PARTI-MAG	w/o HART	R
50XP2000		Converter PARTI-MAG	w/ HART	C
51-1100 Series		Recorder		R
51-1200 Series		Recorder, Circular Chart		R
51-1300 Series		Recorders Indicators		R
51-1400 Series		Recorders, Indicators		R
51-4202 Series		Recorder		R
51A1100 Series		Recorder		R
51A1200 Series		Recorder, Circular Chart		R
51A1300 Series		Recorders Indicators		R
51A1400 Series		Recorders, Indicators		R
51B1100 Series		Recorder		R
51B1200 Series		Recorder, Circular Chart		R
51B1300 Series		Recorders Indicators		R
51B1400 Series		Recorders, Indicators		R
51DI1000		Digital indicator		R
51EG1000 Series		Indicator		R
51EZ2000		Counter		R
51EZ3000		Counter		R
51EZ4000		Counter		R
51EZ5000		MAG/X Converter, custody Transfer		R
51EZ6000		MAG/X Converter, Custody Transfer		R
51MG1000 Series		Indicator		R
52BT Series		Totalizer		R
52EQ3000		Integrator, square root		R
52ET3000		Integrator,linear		R

52ET4000		Integrator,linear		R
52ET5000		Integrator		R
52FT Series		Totalizer		R
53EC Series		Manual Loading Stations		R
53ED3000 Series		Controller		R
53EG1000 Series		Indicator, Electronic		R
53EG3000 Series		Controller		R
53EG4000 Series		Controller		R
53EK3000 Series		Integral Ratio Controller		R
53EL Series		Controller		R
53ER Series		Ratio Controller		R
53ET3000 Series		Flow Controller		R
53EV3000 Series		Floating Controller		R
53HC2600 Series		Loopmaster software		A
53HC3300 Series		micro-DCI Interface s/w (DOS)		CH
53IT5000 Series		Indicator/Totalizer		C
53LK1000 Series		Datalink Converter		R
53LK2000 Series		Data Link Converter		R
53MC1000 Series		Controller, uDCI		R
53MC2000 Series		Controller, uDCI		C
53MC4000 Series		Controller, uDCI		FC
53MC5000 Series		Modular Controller		FC
53ML5000 Series		Manual Loader		C
53PW6000 Series		microPWC	Compatible Version Available 6/98	C

53RM1000 Series		Rack Mounting for MicroDCI		R
53SL5000 Series		Controller, Single Loop		FC
53SL6000 Series		Controller, Single Loop		R
53SU1000 Series		Supervisor		C
53SU5000 Series	4.7	Supervisor-PC	FunctionallyCompatible Version Available 12/98, Manually Reset Feb 29	FC
55BE1000		Operating unit for 50XE4000		R
55BT1000		19" rack		R
55DE1000		Protocoll printer		R
55DT1000		Flange adapter for pt-compensation		R
55FS1000 Series		Precision Frequency Source		R
55GE Series		Preamplifiers, Turbine Meter		R
55GE3000		Preamplifiers, EMF Low Conductivity		R
55GE5000		Preamplifiers, EMF Low Conductivity		R
55GL Series		DC Power Supply		R
55HT4000		Remote keypad for COPA-XF		R
55LA1000		Leakage Detector		R
55MC1000		Magmeter Primary Simulator, MAG/I		R
55MC1015		Primary Simulator, Magmeter		R
55MC1018		Primary Simulator, Magmeter		R
55MC1019		Primary Simulator, Magmeter		R
55MC1020 Series		Magmeter Primary Simulator		R
55MC2000		Magmeter Primary Simulator, MAG/I		R
55MD2000		Converter Dialog Unit		R
55OP1000		Overvoltage		R

55OP1000		Protection		R
55PA1000		Pulse Driver		R
55PA1200 Series		Process Alarm		R
55RT1		Signal converter RS232/TTl		R
55SB11		Safety barrier for 10VT/ST, 10VR/SR1000		R
55SB12		Safety barrier for 10VT/ST, 10VR/SR2000		R
55SB13		Safety barrier for 10VM/SM1000		R
55SB14		Safety barrier for 10VM/SM2000		R
55SB15		Safety barrier for 10MM2000		R
55SW1000		Current Converter		R
55TS1		Transmitter with impuls option		R
55TS2		Transmitter with impuls option		R
55UC Series		Ultrasonic Generator, for magmeters		R
55VC1000		Tester Vortex		R
55VE1000		Delay Unit		R
55XC1000		Magmeter Primary Simulator, MAG/X		R
55XC2000 Series		Magmeter Primary Simulator		R
55XC4000 Series		Magmeter Primary Simulator		R
6101C Series		Recorder	w/o Annotator	C
6101C Series	1.5	Recorder	W/Annotator	C
6101M Series		Recorder		C
6102C Series		Recorder	w/o Annotator	C
6102C Series	1.5	Recorder	W/Annotator	C
6102M Series		Recorder		C
6103C/M Series		Recorder		C
6180C/M Series		Recorder		C

Series				
6180G Series	2.7	Recorder		C
6250C/M Series		Recorder, 250 mm		C
6250G Series	2.7	Recorder, 250 mm		C
6637531_1		Configuration Storage Cartridge, for CTT Series Terminal		R
686B518U02		Scalar Board (for CD-1)		R
686B518U03		Scalar Board (for CD-1)		R
698B182U01		Manual Configurator for 53MC5000 for 53MC5		R
698B182U02		Manual Configurator for 53MC5000 for 53MC5		R
699B394U01, 02		Remote Converter for 10ST1, 10VT1		R
701 Series		Basic Controller		R
701_20 Series		Basic Convertible Controller		R
701_21 Series		Supervisory Setpoint Controller (Incremental Current Pulse)		R
701_22 Series		C/M/A DDC Controller (Incremental Current Pulse)		R
701_23 Series		Primary Cascade DDC Analog Controller		R
701_24 Series		Supervisory Setpoint Controller (With Pulse Count Signal)		R
701_25 Series		Supervisory Setpoint Controller (Pulse Duration)		R
701_26 Series		C/M/A DDC Controller (Pulse		R

		Count)		
701_27 Series		C/M/A DDC Controller (Pulse Duration)		R
70112 Series		Feedforward Controller		R
70113 Series		Tracking Controller		R
7012 Series		C/M/A Controller		R
702 Series		Ratio Controller		R
703 Series		Auto Selector Controller		R
704 Series		Proportional Controller		R
709 Series		Manual Bypass Station		R
70A1700 Series		Ammonia Gas Dispensing System		R
70A4400 Series		Ammonia Gas Dispensing System		R
70A5500 Series		Ammonia Gas Dispensing System		R
70A6600 Series		Ammonia Gas Dispensing System		R
70A7700 Series		Ammonia Gas Dispensing System		R
70C1700 Series		Chlorine Gas Dispensing System		R
70C4400 Series		Chlorine Gas Dispensing System		R
70C5500 Series		Chlorine Gas Dispensing System		R
70C6600 Series		Chlorine Gas Dispensing System		R
70C7700 Series		Chlorine Gas Dispensing System		R
70CV1000 Series		Chloromatic Valve		R
70CV2000 Series		Chloromatic Valve		R
70S1700 Series		Sulfur Dioxide Gas Dispensing System Sulfur Dioxide Gas Dispensing SystemSystem		R

70S4400 Series		Sulfur Dioxide Gas Dispensing System		R
70S5500 Series		Sulfur Dioxide Gas Dispensing System		R
70S6600 Series		Sulfur Dioxide Gas Dispensing System		R
70S7700 Series		Sulfur Dioxide Gas Dispensing System		R
71-9007		Cabinet mounted Controller		R
711 Series		M/A Station		R
712 Series		Bias M/A Station		R
713 Series		Auto Selector Station		R
714 Series		Set Station		R
715 Series		Ratio Station		R
716 Series		C/M Station		R
71K1020 Series		Impact tube flowrate indicator		R
71RC5000 Series		Wall-mounted Controller		R
71V1000 Series		Evaporator		R
71V2000 Series		Evaporator		R
720 Series		Utility Station		R
721 Series		Control unit		R
722 Series		Manual Unit		R
723 Series		Proportional Delay Unit		R
724 Series		Logic Unit		R
725 Series		Proportional Pulse Unit		R
727 Series		DC Signal Generator		R
730 Series		Indicator		R
731, 2, 3 Series		Strip Chart Recorder		R
739 Series		Point Selector		R
740 Series		Mv Converter		R
741 Series		V/F Converter		R
744 Series		Difference Alarm		R
745 Series		Alarm		R

746 Series		Signal Limiter		R
747 Series		Signal Selector		R
748 Series		Pulse Converter		R
750 Series		Square Root Extractor		R
751 Series		Scalar		R
752 Series		2- and 4-input Summer		R
753 Series		Multiplier-Divider		R
754 Series		Function Generator		R
755 Series		Dynamic Compensator		R
761 Series		Rack Units		R
762 Series		Shelves		R
763 Series		Cable Assemblies		R
764 Series		Shelf Assemblies		R
766 Series		Signal Resistor Units		R
7665 Series		Transmitter Barrier Units		R
7666 Series		Output Barrier Units		R
7667 Series		Thermocouple Barrier Units		R
768 Series		Indicator Amplifier		R
769003, 4 Series		Counter Modules		R
769005, 6, 7 Series		Push Button Switch Modules		R
770 Series		Point Selector		R
771, 2, 3 Series		Recorders		R
775 Series		Multi Indicator		R
780 Series		Operator Interface Stations		R
781 Series		Control unit		R
7814 Series		Auto Selector Control Unit		R
782 Series		Proportional Unit		R
786 Series		C/M Interface Unit		R
787 Series		C/M/A Interface Unit		R
AB 41 Series		Ratio Controller		R

AC Series		Control Drives		R
AD Series		Controller		R
AF Series		Function Generator		R
AJ Series		H/A Station or Indicator Controller		R
AL Series		Manual Station		R
AN Series		Controller		R
AP Series		Positioner		R
AR80 Series		Computing Relay		R
AT5 Series		Transfer Valve		R
AV Series		Positioner		R
AVS Series		Smart Positioner		R
BB3 Series		Differential Pressure Meter		R
BC Series		Pressure transmitter		R
BCN Series		Smart pressure transmitter		R
BE3 Series		Differential Pressure Meter		R
BK Series		Differential Pressure Transmitter		R
BQ Series		Transmitter		R
BR13 Series		Differential Pressure Meter		R
BU13 Series		Transmitter		R
BY Series		Transmitter		R
CA13 Series		Transmitter		R
CB3 Series		Flowmeter		R
CBC Series		Controller	Valid to the Year 2080	C
CBE Series		Module Bus Extender		R
CC Series		Transmitter		R
CD674A254U__		50XM1000B Electronics Module w/o HART for Magmeter Converter		R
CD674A254U__		50XM1000B Electronics Module w/HART For Magmeter		C
		CD-1 Mag		

CD698B076U		Flowmeter Converter		R
CE3 Series		Flow Meter		R
CG13 Series		Transmitter		R
CH13 Series		Transmitter		R
CIC Series		Communications Module	Valid to the Year 2080	C
CLC Series		Command Loop Controller	Valid to the Year 2080	C
CPC Series		Process Command Controller (1/4 DIN)		R
CSC Series		Sequence Command Controller	Valid to the Year 2080	C
CTT Series		Configuration & Tuning Terminal		C
CU16 Series		Transmitter		R
D10DK1425		Magnetic Flowmeter		R
DC3 Series		Ratio (flow) meter		R
DE21		Magnetic Flowmeter MAG-XE	w/o HART	R
DE21		Magnetic Flowmeter MAG-XE	w/ HART	C
DE21F		Magnetic Flowmeter MAG-XE	w/o HART	R
DE21F		Magnetic Flowmeter MAG-XE	w/ HART	C
DE23		Magnetic Flowmeter COPA-XE	w/ HART	C
DE23		Magnetic Flowmeter COPA-XE	w/o HART	R
DE23F		Magnetic Flowmeter COPA-XE	w/o HART	R
DE23F		Magnetic Flowmeter COPA-XE	w/ HART	C

DE26F		Magnetic Flowmeter MAG-XE EEx	w/o HART	R
DE26F		Magnetic Flowmeter MAG-XE EEx	w/ HART	C
DE27		Magnetic Flowmeter COPA-XE EEx	w/o HART	R
DE27		Magnetic Flowmeter COPA-XE EEx	w/ HART	C
DE27F		Magnetic Flowmeter COPA-XE EEx	w/ HART	C
DE27F		Magnetic Flowmeter COPA-XE EEx	w/o HART	R
DE28		Magnetic Flowmeter COPA-XE "d" remote	w/o HART	R
DE28		Magnetic Flowmeter COPA-XE "d" remote	w/ HART	C
DE28F		Magnetic Flowmeter COPA-XE "d" remote	w/o HART	R
DE28F		Magnetic Flowmeter COPA-XE "d" remote	w/ HART	C
DE41		Magnetic Flowmeter MAG-XE		R
DE41F		Magnetic Flowmeter MAG-XE		R
DE43		Magnetic Flowmeter COPA-XE	w/o HART	R
DE43		Magnetic Flowmeter COPA-XE	w/ HART	C
DE43F		Magnetic Flowmeter COPA-XE	w/o HART	R
		Magnetic		

DE43F		Flowmeter COPA-XE	w/ HART	C
DE46		Magnetic Flowmeter MAG-XE EEx	w/o HART	R
DE46		Magnetic Flowmeter MAG-XE EEx	w/ HART	C
DE46F		Magnetic Flowmeter MAG-XE EEx	w/o HART	R
DE46F		Magnetic Flowmeter MAG-XE EEx	w/ HART	C
DE47		Magnetic Flowmeter COPA-XE Eex	w/o HART	R
DE47		Magnetic Flowmeter COPA-XE Eex	w/ HART	C
DE47F		Magnetic Flowmeter COPA-XE Eex	w/o HART	R
DE47F		Magnetic Flowmeter COPA-XE Eex	w/ HART	C
DE48		Magnetic Flowmeter COPA-XE "d" remote	w/o HART	R
DE48		Magnetic Flowmeter COPA-XE "d" remote	w/ HART	C
DE48F		Magnetic Flowmeter COPA-XE "d" remote	w/o HART	R
DE48F		Magnetic Flowmeter COPA-XE "d" remote	w/ HART	C
DF23		Magnetic Flowmeter COPA-XF		R
DM Series		Direct Mass Flowmeter		R
DM21		Magnetic Flowmeter MAG-XM		R

DM21F		Magnetic Flowmeter MAG-XM		R
DM23		Magnetic Flowmeter COPA-XM	w/o HART	R
DM23		Magnetic Flowmeter COPA-XM	w/ HART	C
DM23F		Magnetic Flowmeter COPA-XM	w/ HART	C
DM23F		Magnetic Flowmeter COPA-XM	w/o HART	R
DP41F_A		Magnetic Flowmeter PARTI-MAG		R
DP46F_A		Magnetic Flowmeter PARTI-MAG Eex		R
DS Series		Remote Diaphragm Seals		R
DS21		Magnetic Flowmeter MAG-SM/Fill-MAG		R
DS21F		Magnetic Flowmeter MAG-SM/Fill-MAG		R
DT43F		Magnetic Flowmeter COPA-XT	w/o HART	R
DT43F		Magnetic Flowmeter COPA-XT	w/ HART	C
DT43W		Magnetic Flowmeter COPA-XT	w/o HART	R
DT43W		Magnetic Flowmeter COPA-XT	w/ HART	C
EBTH Series		Smart (HART) Temperature Transmitter	Valid to the Year 2155	C
EQ Series		Temperature Transmitter		R

EQN Series		Temperature Transmitter		R
EQS Series		Temperature Transmitter		C
ER Series		Ratio Controller		R
ES Series		Edgewise Indicator		R
ET Series		Temperature Transmitter		R
FA Series		Desuperheater		R
FB Series		Desuperheater		R
FC Series		Controller		R
FG Series		Function Generator		R
FL Series		Manual Loader (BCCo)		R
FL Series		Turbine Meter (F&P)		R
FP Series		Variable Area Flowmeter		R
FS Series		Square Root Generator		R
FT Series		M/A Transfer Station (BCCo)		R
FT Series		Turbine Meter (F&P)		R
FTA Series		Turbine Meter (F&P)		R
FTI Series		Turbine Meter (F&P)		R
FTRC Series		Turbine Meter (F&P)		R
FTSC Series		Turbine Meter (F&P)		R
ICCS		Industrial Combustion Control System		R
ITOP		Current to Pneumatic Converter		R
JR12 Series		Area Meter		R
JR13 Series		Transmitter		R
KA Series		Transmitter		R
KAF		SONOCON 3 food sensor		R
KAI		SONOCON 3		R

KAL		laboratory sensor		R
KAM		SONOCON 3 wafer type metal		R
KAP		SONOCON 3 wafer type plastic		R
KAT		SONOCON 3 Diving armature		R
KC16 Series		Square Root Extractor		R
KD14 Series		Transmitter		R
KL Series		Strip Chart Recorder		R
KM5 Series		Recorder, Indicator		R
KP Series		Transmitter		R
KQ Series		Transmitter		R
KS Series		Transmitter		R
KT13 Series		Transmitter		R
KU1000		Converter SONOKON 3		R
LH Series		Transmitter		R
LK Series		Transmitter		R
LQ Series		Transmitter		R
LU13 Series		Transmitter		R
M2 Series		Magnetic Flowmeter converter	w/o HART	R
M2 Series		Magnetic Flowmeter converter	w/ HART	C
MC1_A		Mass-Flowmeter TRIO-MASS		R
MFA Series		INFIMAG 90 Magnetic Flowmeter		R
MFN Series		INFIMAG 90 Magnetic Flowmeter		R
microTools		microDCI Interface s/w (WinNT)		C
MQ Series		Magnetic Flowmeter		R
MQT Series		Transmitter		R
MWA Series		INFIMAG 90 Magnetic		R

		Flowmeter		
MWNV		INFIMAG 90 Magnetic Flowmeter		R
N-BQ Series		Nuclear Service Transmitter		R
N-KS Series		Nuclear Service Transmitter		R
OA Series		Analyzer		R
OB Series		Analyzer		R
OC Series		Analyzer		R
OD Series		Analyzer		R
OE Series		Analyzer		R
OH Series		Analyzer		R
OJ Series		Analyzer		R
OL Series		Analyzer		R
OS Series		Gas Analyzer Panel		A
PG Series		Multipoint gage		R
PH Series		Ion/ORP/pH Transmitter		A
PS Series		Indicator		R
PTD Series		Pressure Transmitter		R
PTDL Series		Level Transmitter		R
PTH Series		Smart (HART) Pressure Transmitter	Valid to the Year 2155	C
PTHD Series		Smart (HART) Pressure Transmitter	Valid to the Year 2155	C
PTHDL Series		Smart (HART) Level Transmitter	Valid to the Year 2155	C
PTHP Series		Smart (HART) Pressure Transmitter	Valid to the Year 2155	C
PTP Series		Pressure Transmitter		R
PTS Series		Smart Pressure Transmitter		C
PTSD Series		Smart Pressure Transmitter		C
PTSDL Series		Smart Level Transmitter		C

PTSP Series		Smart Pressure Transmitter		C
PY Series		Indicator		R
RA41 Series		Interlock Contactors		R
RC Series		Drive		R
RD Series		Drive		R
RE Series		P/E Converter		R
RE2 Series		Dot Recorder		R
RE3 Series		100mm Analog Strip Recorder		R
RE4 Series		100mm Analog Strip Recorder	Same As 2342	R
RE5 Series	5.2	Recorder (Version 5.2 or Higher)	Same As 2342	C
RH Series		Position Transmitter		R
RL Series		Manual Station		R
RM5 Series		Selector Switch		R
RP Series		E/P Converter		R
RQ Series		Position Transmitter		R
RS Series		Manual Station		R
RU Series		Selector Station		R
RV Series		Drive		R
RW Series		Drive		R
RY Series		Edgewise Indicator		R
RZ Series		Switch and light Station		R
SEEK		Software for Smartport		CH
SIU		Smart Interface Unit for Smart Transmitters		R
SLC Series		Strategic Loop Controller	Valid to the Year 2080	C
SLC01 Series		Strategic Loop Controller	Valid to the Year 2080	C
SLC02 Series		Strategic Loop Controller	Valid to the Year 2080	C
SLNK01		Smartlink software		A
SMA Series		Smart Analyzer SMA-90	Valid to the Year 2150	C

Smartport		Smartport		A
SPC		Smart Transmitter Software Kits	Valid to the Year 2099	C
SR1 Series		Strip Chart Recorder		R
SR2 Series		Strip Chart Recorder		R
STC Series		Cartridge, for STT Terminal		R
STT01, 2, 3 Series		Hand Held Terminal for transmitters		R
STT04 DownLink		PC Utility Software for STT04		C
STT04 Series		Hand Held Terminal for transmitters	Valid to the Year 2150	C
TG Series		Signal Generator		R
TJ Series		Manual Jog Station		R
TO Series		Blank Station		R
TR Series		Trend Recorder		A
TT Series		Transfer Station		R
TWA Series		Turbine Meter		R
TY Series		Indicator		R
TZ Series		Enclosure		R
UC Series		Opacity Monitor		R
UE Series		Rotary Actuator		R
UF Series		Flamon		R
UJ Series		Opacity Monitor		R
UM Series		Flamon Enclosure		R
UP Series		Rotary Actuator		R
UW Series		Flamon Detector		R
VF Series		Vortex Flowmeter		R
WC Series		Chart Recorder	Same As 1390	R
WCE Series		Chart Recorder	Same As 1392	R
WM55 Series		Recorder/Indicator		R
XM2 Series		Magnetic Flowmeter Electronics		R

End of Report

9

NEW PRODUCTS | PRESSURE | FLOW | TEMPERATURE | LEVEL | VALVES | TO ORDER

Dwyer Instruments, Inc.
P.O. Box 373 - 102 Highway 212
Michigan City, Indiana 46361-0373
Sales Only: (219) 879-8000
General Office: (219) 879-8868
Fax: (219) 872-9057

♦ Year 2000 (Y2K) Compliant ♦

To Whom it May Concern:

All of our products in our catalog are Year 2000 Compliant.

I am pleased to report that our internal Dwyer "Year 2000 Project" has been completed after extensive testing and re-testing of all of our computer related programs. We have successfully converted to the new "Year 2000" system and have been operating with this new system since June 1, 1998 without any problems.

We are now ready for the next century. We are working with our suppliers and other support companies to gain assurance that their systems will not adversely affect our business when the calendar changes.

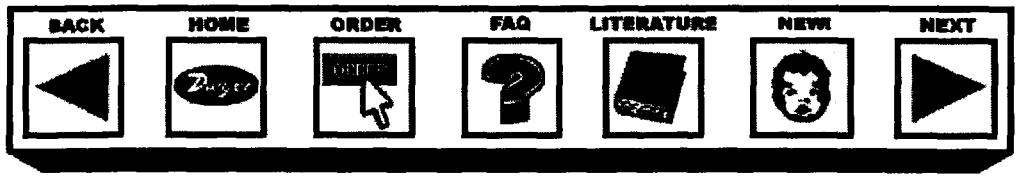
As you know, systems that have not been renovated could misinterpret a date such as "01/01/00" as the first day of 1900 instead of 2000, potentially disrupting many aspects of our business that we depend upon. It is good to know that this long and arduous task is now behind us. We are looking forward to the exciting new millenium with all its challenges and opportunities.

If you have any questions, please feel free to contact our Sales department for assistance.

Sincerely,

Jim Robertson
Administrative Sales Manager

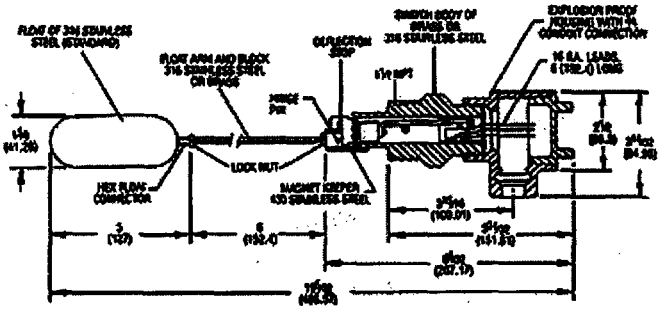
E-Mail: info@dwyer-inst.com
E-Mail: tech@dwyer-inst.com
E-Mail: lit@dwyer-inst.com



New Products ¤ Pressure ¤ Flow ¤ Temperature ¤ Level ¤ Valves ¤ Site Map

Model L4 FLOTECT Float Switch

Protects against high or low liquid level.
Magnetically operated switch-leak proof body.



Dimensional Enlargement

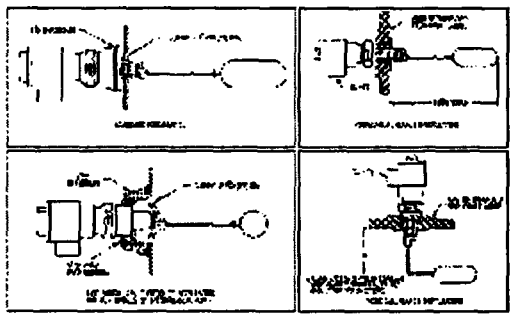
Compact and reliable, the Model L4 Float Switch uses the time-tested Model V4 Flotect Switch body to provide dependable liquid level control to start or stop pumps, open or close valves - or actuate alarm signals. Installed in thousands of tanks and processing plants around the world, this unique magnetically actuated switching design gives superior performance. There are no bellows, springs, or seals to fail. Installed through a 1 1/2" thredolet welded to tank, the unit is easily field installed or replaced. The electrical assembly may be quickly replaced without removing the switch from the tank. Float arm hinge design limits the arm angle to prevent vertical hangup. Float is 316 stainless steel for service with compatible corrosive fluids. For use in fluids with specific gravity down to 0.7.

Features include: Simplicity of design and a leak proof switch body, machined from bar stock for pressures to 2000 PSIG, (140kg/cm2), it eliminates the possibility of process fluids entering the switch compartment. The threaded conduit enclosure cover permits easy inspection or replacement of electrical assembly without shutting down the system, or removing electrical conduit. Power must be disconnected. The unit fits directly into tank with a thredolet or flange for easy installation. All units are explosion-proof and listed with UL. and C.S.A. for Class I, Groups C and D, Class II, Groups E, F and G or are flame-proof to CENELEC/SAA EExd IIB T6.

APPLICATIONS

The L4 Float Switch maintains predetermined liquid levels in tanks through direct pump control. Also used to control sump levels, scrubber system liquid levels and automatic tank dump operations. Controls levels or provides alarms for hydro-pneumatic tanks, low pressure boilers and various waste water and sewage treatment processes. With a special L-shaped float arm, it can be mounted vertically in tank top for tank overflow or alarm.

Click to View



TO ORDER

PHYSICAL DATA

Temperature Limits: Standard 275°F (135°C). High temperature, MT option (not U.L., C.S.A. or CENELEC/SAA), 400°F (205°C) max.
Operating Pressure: Body 1000 PSIG (70kg/cm2) Float 100 PSIG (7kg/cm2). See Float data below for other pressures.
Electrical Rating: U.L. and CENELEC/SAA: 10A @ 125/250 VAC. C.S.A.: 5A @ 125/250 VAC, 5A resistive, 3A inductive @ 30 VDC. Optional ratings (not U.L., C.S.A. or CENELEC/SAA); MV option: Gold contacts for dry circuits. Rated 1 amp @ 125 VAC, 1 amp resistive, 1/2 amp inductive @ 30 VDC. MT option: 400°F (205°C) 5 amp @ 125/250 VAC.
Wiring: UL./C.S.A. unit; 16 gauge copper wire, 6" (152mm) long, mechanically and solder bonded to switch. CENELEC/SAA unit: Terminal board.
Switch Body: One piece milled and bored Brass or 316SS.
Float: 316SS, 1 5/8" x 5" (41mmx127mm), std. 100 PSIG (7kg/cm2) min. SG 0.7 Trim includes 430SS and silver solder. Optional floats: 316SS 150 PSIG (10kg/cm2) min. SG 0.7. 304SS 300 PSIG (21 kg/cm2) min. SG 0.7. 304SS 50 PSIG (3.5kg/cm2) min. SG 0.5. Optional floats, 2 1/2" OD (64mm) spherical.
Piping Connection: 1 1/2" NPT std. for mounting in 1 1/2" thredolet. 2 1/2" NPT required for optional floats. For other mounting see application page. Thredolet fittings available.
Protection: NEMA-4 watertight (IP56) standard.
Installation: Horizontal installation standard. Vertical installation available.
Weight: 4 lb. 9 oz. (2.07kg).
Options: All 316SS wetted parts. Floats for light fluids, high pressure, and corrosive service. DPDT circuit.
Standard Dead Band: 3/4" (19mm) approx.

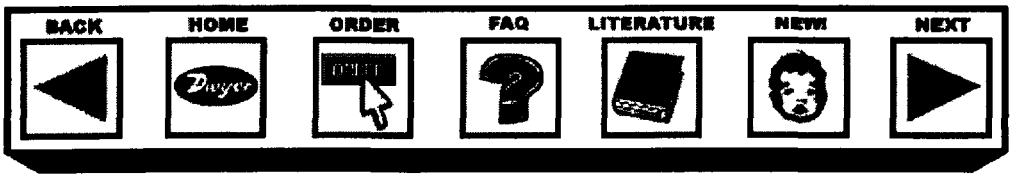
Model L4 FLOTECT® Level Switches

Model No.	Description
L4	Brass, Side Wall Mounting
L4-SS	316SS* Side Wall Mounting
L4-TOP	Brass, Vertical (Top Mounting)
L4-SS-TOP	316SS* Vertical (Top Mount)

Suggested Specification:
Liquid level switches shall be operated by a type 316 stainless steel float via magnetic

linkage. Wetted parts shall all be metal. No elastomeric or plastic O-rings, diaphragms or packing shall be required to contain process fluid. Switches shall be weather-proof and explosion-proof Switches shall be W.E. Anderson No. L4

E-Mail:
General Information: info@dwyer-inst.com
Technical Inquiries: tech@dwyer-inst.com
Literature Request: lit@dwyer-inst.com
Quotes Request: quotes@dwyer-inst.com



New Products ¤ Pressure ¤ Flow ¤ Temperature ¤ Level ¤ Valves ¤ Site Map

10

FAX

Brooks Instrument
407 W. Vine Street
Hatfield, PA 19440

Date 07/13/99

Number of pages including cover sheet 6

TO:	*Montgomery Watson*
Attn:	*Scott Sherman*
Ref:	
Phone	*630.691.5000*
Fax Phone	*630.691.5133*

FROM:	*Susanne Mullineaux*
	Customer Service/Marketing Coordinator
Phone	*215-362-3528*
Fax Phone	*215 362-3709*
E-mail	*susanne.mullineaux@frco.com*

REMARKS: ☐ *Urgent* ☐ *For your review* ☐ *Reply ASAP* ☐ *Please Comment*

Following is the information you requested regarding Brooks Instrument Year-2000 readiness.

Thank you for your interest in Brooks Instrument.

Best Regards,

Susanne Mullineaux

Brooks Instrument

Brooks Instrument
407 W. Vine Street
P.O. Box 903
Hatfield, PA 19440-0903 USA
Tel (800) 799-7364
Fax (215) 362-3745

To: Brooks Instrument Valued Customers

From: Charlie Fisher

Date: June 9, 1999

Subject: Year 2000 Readiness Disclosure

Dear Valued Customer,

This letter is being sent in response to your request for information regarding Brooks Instrument Year-2000 readiness.

Many of us have heard news reports predicting consequences of the 1999 to 2000 calendar year rollover. Brooks Instrument understands and shares your concern regarding potential "Millennium Bug" problems, and is taking the necessary steps to make sure that it's software and computer systems can handle the date change to the Year-2000.

Brooks Instrument is addressing compliance in three primary areas; product, information systems and manufacturing operations.

Product

Brooks Instrument manufactures or has manufactured the products listed below (the "Products"). We have completed our evaluation of the Products and have confirmed that they will not be affected by the date change to the Year-2000. Brooks is now offering a standard Year-2000 warranty for the Products upon request.

In most microprocessor based Products, the date data is transmitted from the Product over a communication line to an external system (e.g. 'logging' of an event) which is not manufactured by Brooks. **Brooks does not assume any responsibility for third party hardware, software or firmware which is used in combination with the Products or with which the products share information, and it is important for you, the customer/user, to determine proper operation of any third party hardware, software or firmware.**

Brooks Instrument

Brooks Instrument
407 W. Vine Street
P.O. Box 903
Hatfield, PA 19440-0903 USA
Tel (800) 799-7364
Fax (215) 362-3745

Information Systems
Brooks Instrument is in the process of testing business system software for Year-2000 issues. This work is planned for completion early in 1999 and should not disrupt our normal business operations. This effort involves a planning readiness assessment, testing and audit process.

Manufacturing Operations
Brooks is evaluating it's manufacturing equipment, systems and processes for Year-2000 readiness. Brooks Instrument is also working with the vendors in our supply chain to assess their level of compliance and to obtain appropriate Year-2000 compliance warranties. We will continue to work with these supplier partners to insure a smooth transition to the Year-2000.

I hope the above information helps you in your plant-wide investigation of Year-2000 compliance issues. If there are any remaining questions regarding Brooks Instrument product, information system and/or operational compliance please contact the Brooks Instrument Customer Service Department at 888-554-FLOW.

Sincerely,

Charlie Fisher
Customer Service Manager

Timothy W. Scott
Vice-President, Engineering

Brooks Instrument

Brooks Instrument
407 W. Vine Street
P.O. Box 903
Hatfield, PA 19440-0903 USA
Tel (800) 799-7364
Fax (215) 362-3745

	PROOVER)		CALIBRATOR	

PRODUCT FAMILY	PRODUCT NUMBER / NAME / VERSION	PRODUCT DESCRIPTION	PRODUCT CATEGORY	IS PRODUCT DATE AWARE?
MAGMETERS:				
	7400 SERIES	MAGNETIC FLOWMETER, WAFER	FLOWMETER	NO
	5000 SERIES	MAGNETIC FLOWMETER, FLANGE	FLOWMETER	NO
	7797 / 7798	MAG ELECTRINICS CALIBRATORS	FLOWMETER ELECTRONICS	NO
	3520, 3560, 3570, 3580	MAGMETER ELECTRONICS	FLOWMETER ELECTRONICS	NO
POSITIVE DISPLACEMENT:				
OVALS				
	9800 SERIES	OVAL GEAR POSITIVE DISPLACEMENT METER	FLOWMETER	NO
	9900 SERIES	OVAL GEAR POSITIVE DISPLACEMENT METER	FLOWMETER	YES
	LSN41/45	FLOWMATE OVAL FLOWMETER	FLOWMETER	NO
	9043	BROOKS-OVAL MARK SERIES METER	FLOWMETER	NO
	LS-21312	MINI OIL FLOWMETER	FLOWMETER	NO
	MOOP	MINI OIL OPTICAL PULSER	FLOWMETER	NO
	9000D/L	OVAL DIFFERENTIAL INDUCTANCE METERS	FLOWMETER	NO
PISTONS				
	S2231-10	PISTON FLOWMETER, POSITIVE DISPLACEMENT	FLOWMETER	NO
	S2231-11	PISTON FLOWMETER, POSITIVE DISPLACEMENT	FLOWMETER	NO
	S2231-12	PISTON FLOWMETER, POSITIVE DISPLACEMENT	FLOWMETER	NO
METER ACCESSORIES:				
	0310	TRI 10 ELECTRONIC REGISTER	FLOWMETER ELECTRONICS	NO
	0320	TRI 20 ELECTRONIC REGISTER WITH SMM	FLOWMETER ELECTRONICS	YES
	0355	UMB POWER PULSER	FLOWMETER ELECTRONICS	NO
	0360	UMB OPTICAL PULSER	FLOWMETER ELECTRONICS	NO
	200	FREQUENCY TO ANALOG CONVERTER	FLOWMETER ELECTRONICS	NO
	300	ELECTRONIC BATCH CONTROLLER/TOTALIZER	FLOWMETER ELECTRONICS	NO
	0421	FREQUENCY TO ANALOG CONVERTER	FLOWMETER ELECTRONICS	NO
	4400	TEMPERATURE COMPENSATOR	FLOWMETER ELECTRONICS	NO
	805-818	FLOW RATE INDICATOR	FLOWMETER ELECTRONICS	NO
	4351D	HIGH FREQUENCY PULSE GENERATOR	FLOWMETER ELECTRONICS	NO
	M4352-10	ELECTRICAL IMPULSE CONTACTORS	FLOWMETER ELECTRONICS	NO
	275 (Rev 4.4)	HART COMMUNICATOR	ELECTRONICS	YES
	275 (Rev 3.8 and earlier)	HART COMMUNICATOR	ELECTRONICS	YES

All statements contained herein are made pursuant and subject to The Year 2000 Information and Readiness Disclosure Act (Public Law 105-271) and are sent to you as a **YEAR 2000 READINESS DISCLOSURE**

Brooks Instrument

Brooks Instrument
407 W. Vine Street
P.O. Box 903
Hatfield, PA 19440-0903 USA
Tel (800) 799-7364
Fax (215) 362-3745

PRODUCT FAMILY	PRODUCT NUMBER / NAME / VERSION	PRODUCT DESCRIPTION	PRODUCT CATEGORY	IS PRODUCT DATE AWARE?
MASS FLOWMETERS:				
	0550	THERMAL MASS FLOW CONTROLLER	FLOW CONTROLLER	NO
	Mf50, Mf51, Mf53	NEMA4X/IP65 MASS FLOW CONTROLLER	FLOW CONTROLLER	NO
	Mf60, Mf61, Mf63, Mf64	NEMA4X/IP65 MASS FLOW METER	FLOWMETER	NO
	5850C, 5850D, 5850E, 5851E, 5853E	MASS FLOW CONTROLLER	FLOW CONTROLLER	NO
	5860E, 5861E, 5863E, 5864E	MASS FLOW METER	FLOWMETER	NO
	5850i, 5851i, 5853i	MASS FLOW CONTROLLER	FLOW CONTROLLER	NO
	5860i, 5861i, 5863i, 5864i	MASS FLOW METER	FLOWMETER	NO
	5850S, 5851S, 5853S	MASS FLOW CONTROLLER	FLOW CONTROLLER	YES
	5860S, 5861S, 5863S, 5864S	MASS FLOW METER	FLOWMETER	YES
	5850TR	MASS FLOW CONTROLLER	FLOW CONTROLLER	NO
	5816	MASS FLOW METER	FLOWMETER	NO
	5850EM, 5851EM, 5864, 5865, 6256	MASS FLOW CONTROLLER	FLOW CONTROLLER	NO
	5865	THERMAL DISPERSION MASS FLOW METER	FLOWMETER	NO
	5866	ELECTRONIC PRESSURE CONTROLLER	PRESSURE CONTROLLER	NO
	5881, 5882 / 5891, 5892	LIQUID MASS FLOW CONTROLLER/METER	FLOW CONTROLLER	NO
	5700	MASSRATE ELECTRONIC FLOWMETER	FLOWMETER	NO
	5835, 5836, 5837	ELECTRONIC CONTROL VALVE	FLOW CONTROL VALVE	NO
	5871 - 5878, 5895 - 5898	MASS FLOW SECONDARY ELECTRONICS	FLOWMETER ELECTRONICS	NO
	KESSLER	DISPLAY/POWER SUPPLY	FLOWMETER ELECTRONICS	NO
	0151, 0152, 0154, 0171	MASS FLOW SECONDARY ELECTRONICS	FLOWMETER ELECTRONICS	NO
	5848	IN-LINE MASS FLOW FILTER	FLOWMETER ACCESSORY	NO
	MFSee	COMPANION SOFTWARE KIT	FLOWMETER ACCESSORY	YES
	TruCal	CALIBRATION PROCESS	FLOWMETER ACCESSORY	NO
	0160 Rev (SMART CONTROL)	COMPANION SOFTWARE KIT	FLOWMETER ACCESSORY	YES
	SMART DEE	COMPANION SOFTWARE KIT	FLOWMETER ACCESSORY	NO
	SMART SERVICE	COMPANION SOFTWARE KIT	FLOWMETER ACCESSORY	NO
MISCELLANEOUS:				
	1050 SERIES (VOL-U-METER)	GAS FLOW CALIBRATORS	FLOWMETER CALIBRATOR	NO
	1060 SERIES (VOL-U-METER)	GAS FLOW CALIBRATORS	FLOWMETER CALIBRATOR	NO
	1070 SERIES (VOL-U-METER)	GAS FLOW CALIBRATORS	FLOWMETER CALIBRATOR	YES
	1090 SERIES (BELL	GAS FLOW CALIBRATORS	FLOWMETER	NO

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Brooks Instrument

Brooks Instrument
407 W. Vine Street
P.O. Box 903
Hatfield, PA 19440-0903 USA
Tel (800) 799-7364
Fax (215) 362-3745

PRODUCT FAMILY	PRODUCT NUMBER / NAME / VERSION	PRODUCT DESCRIPTION	PRODUCT CATEGORY	IS PRODUCT DATE AWARE?
VARIABLE AREA FLOWMETERS:				
GLASS TUBE				
	1020,1024, 1026, 1028 (GT1000 SERIES)	VARIABLE AREA GLASS TUBE FLOWMETER	FLOWMETER	NO
	1110, 1114, 1116, 1117 (1110 SERIES)	VARIABLE AREA GLASS TUBE FLOWMETER	FLOWMETER	NO
	1140, 1144, 1146, 1147 (1140 SERIES)	VARIABLE AREA GLASS TUBE FLOWMETER	FLOWMETER	NO
	1303, 1305, 1307 (1300 SERIES)	VARIABLE AREA GLASS TUBE FLOWMETER	FLOWMETER	NO
PURGE METERS				
	1350, 1355, 1358 (1350 SERIES)	PURGE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	1360, 1370 (MULTI-TUBE)	PURGE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	1510 (LFC SERIES)	PURGE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	2001 (BROOKS-MITE)	PURGE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	2700 (BROOKS-MITE)	PURGE VARIABLE AREA FLOWMETER	FLOWMETER	NO
METAL TUBE				
	3750 (AR-MITE)	METAL TUBE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	3809C, 3809D, 3819	METAL TUBE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	3809E, 3810	METAL TUBE VARIABLE AREA FLOWMETER	FLOWMETER	YES
	3600, 3601, 3602, 3604 (3600 SERIES)	METAL TUBE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	3621, 3622, 3623 (3620 SERIES)	METAL TUBE VARIABLE AREA FLOWMETER	FLOWMETER	NO
	3630, 3631, 3632, 3633, 3634, 3635, 3636, 3637 (3630 SERIES)	METAL TUBE VARIABLE AREA FLOWMETER	FLOWMETER	NO
VA ACCESSORIES				
	5510, 5522, 6311, 6312, 6315, 6316, 6611, 6612, 6615, 6616	ACCESSORY - TRANSMITTER	FLOWMETER ACCESSORY	NO
	8000	ACCESSORY - SIGHT FLOW INDICATOR	FLOWMETER ACCESSORY	NO
PROPELLER:				
	3300	PROPELLER FLOWMETER	FLOWMETER	NO
FLOW CONTROLLERS:				
	BLIV	NEEDLE CONTROL VALVES	FLOW CONTROL VALVE	NO
	1390	SINTERED METAL FILTER	FLOWMETER ACCESSORY	NO
	8503	NEEDLE CONTROL VALVES	FLOW CONTROL VALVE	NO
	8601, 8606	PRESSURE REGULATORS	PRESSURE REGULATOR	NO
	8744	FLOW CONTROLLERS	FLOW CONTROLLER	NO
	8800, 8810, 8830, 8900, 8910	INTEGRAL FLOW CONTROLLERS	FLOW CONTROLLER	NO

All statements contained herein are made pursuant and subject to The Year 2000 Information and Readiness Disclosure Act (Public Law 105-271) and are sent to you as a **YEAR 2000 READINESS DISCLOSURE**

Endress+Hauser

Reinach, August 1998

Fax Note 7671 | Date 7/15/99 | # of pages 9
To SCOTT SHERMAN
Fax 630-691-5133
From VIVIAN
Phone # 317-535-1324

To our valued customers

Year 2000 Conformity

This document addresses what is commonly known as Year 2000 Conformity (also some-times known as century or millennium compliance or Y2K-problem). It provides a definition of this expression and a statement of conformity of the instruments and software made by Endress+Hauser, the company software used at Endress+Hauser as well as a status report concerning Year 2000 conformity work with respect to the suppliers of Endress+Hauser.

Definition

Year 2000 Conformity shall mean that neither performance nor functionality is affected by dates prior to, during and after the year 2000. In particular:

1. No value of current date will cause any interruption in operation.
2. Date-based functionality must behave consistently for dates prior to, during and after the Year 2000.
3. In all interfaces and data storage, the century in any date must be specified either explicitly or by unambiguous algorithm or inferencing rules.
4. Year 2000 must be recognized as a leap year.

Statement of Conformity

Even though there is no stipulation of a date used in the vast majority of the Endress+Hauser devices we are presently evaluating Year 2000 Conformity product by product. Wherever the suspicion might arise that a Y2K problem is in the realm of possibility a Test Procedure (see Appendix 1) which has been established in accordance with recognised standards is applied and a Test Report (see Appendix 2) is prepared. Once the test has been passed in all respects the product is entered into the Positive List (Appendix 3).

The devices included in the Positive List meet the Year 2000 Conformity unreservedly in respect of the definition mentioned above. Devices not yet listed there are still being examined; this process will have been concluded by the end of September 1998. In case of any queries please contact your Endress+Hauser distribution partner.

In addition, Endress+Hauser only uses corporate company software (SAP), individual SAP application tools and corporate communications software, which are Year 2000 compatible or are made compatible at short notice.

Furthermore, work is in progress to achieve Year 2000 compliance of all production software tools.

As far as suppliers are concerned Endress+Hauser has already started work to receive Year 2000 Conformity Statements from all relevant suppliers.

The leader of the project "Y2K" responsible for the entire Endress+Hauser Group is:
Dipl.-Ing. Diether Schaudel, Endress+Hauser (International) Holding AG, Kägenstrasse 7, CH-4153 Reinach, Schweiz, Tel. ++41 61 715 65 90, Fax. ++41 61 711 06 82, E-Mail: diether.schaudel@holding.endress.com

Furthermore, every Endress+Hauser Company has a responsible person for "Y2K"

Geographical locations

The above written statement covers all business units of the Endress+Hauser Group throughout the world.

Since work on the Year 2000 Conformity is in progress we are going to inform our business partners periodically. The latest news on the topic can be found on our webpage: www.endress.com

Endress+Hauser (International) Holding AG

Dipl.-Ing. Diether Schaudel, Director

DS/ml

Enclosures 3

Further on-line information can be found, e.g.:
http://www.year2000.com
http://www.ie.iwi.unibe.ch/zobis/jahr2000 (German language)
http://www.software.ibm.com/year2000

Test Report:
Year 2000 Compliance

Endress+Hauser

APPENDIX: Description of the Test Procedure (V1.00.00a)

Rollover <date1> to <date2>
Set date to <date1>, set time to 23.55 hrs, observe system date after 00:00 hrs,
correct result: <date2>

Day of the Week
Set date to <date1>, set time to 23.55 hrs, observe day of the week on system clock,

Archive Date access
Examine existing log data file or create test file,
Set date to <date1> and create a log event,
Set time to 23:55 hrs and allow system to rollover:
Data file should contain the expected number of records that should be correctly dated.

Data Sorting Test
set date to <date1>, 23:50 hrs
examine existing alarm or events log or create test log
Note number of records and sort by date, examine event log
create new event or alarm
Allow system to rollover
create new event or alarm, examine log
Events should be correctly dated
Sort by date: the created events should be at the correct location in the log

Reboot Test
Set date to <date1>, 23.50 hrs,
Allow system to rollover,
Power down system and wait 30 seconds
Power up system and observe system date and time.

(in addition: if internal clock operates without external power
Set date to <date1>, 23:50 hrs,
Power down system and wait for the internal clock to rollover,
Power up system and observe the system date.)

Period Calculation
Create log events for <date1>, <date2> and beyond <date2>,
Create a period report in the critical period of time with alarm or event log file or test log file.
Check that all events have been logged correctly and periods have been calculated correctly.

Timer Test
Set an alarm or event to activate beyond <date2>. Set date to <date1>, 23.50 hrs. Allow system to rollover.
Check correct behavior.

Access/Password test
Check if expiry date of licences and/or passwords is beyond the year 2000,
Set date beyond the year 2000 but prior expiry date, system access should be allowed
Set date beyond the year 2000 after expiry date, system access should be denied.

Jump into date
Set device date straight into the potentially sensitive date (<date2>).
The system accepts the date and operates correctly.

Test Report: Year 2000 Compliance

Endress+Hauser

Product family name:	Name:	
Order Code Root:	Test Date:	
Test Result: ☐ passed ☐ failed		

No.	Test	Remarks	N/A (not applicable)	Test passed	Test failed
1	Rollover 31/12/1998 to 01/01/1999 Archive Date Access Data Sorting Test Access/Password test		☐ ☐ ☐ ☐	☐ ☐ ☐ ☐	☐ ☐ ☐ ☐
2	Rollover 08/09/1999 to 09/09/1999 Archive Date Access Data Sorting Test		☐ ☐ ☐	☐ ☐ ☐	☐ ☐ ☐
3	Rollover 31/12/1999 to 01/01/2000 Day of the Week Reboot Test Archive Date Access Data Sorting Test Period Calculation Test Timer Test Access Password Test Jump Into Date		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
4	Rollover 28/02/2000 to 29/02/2000 Day of the Week		☐ ☐	☐ ☐	☐ ☐
5	Rollover 29/02/2000 to 01/03/2000 Day of the Week		☐ ☐	☐ ☐	☐ ☐
6	Rollover to 01/01/2001 Day of the Week Archive Date access Data Sorting Test Period Calculation Test Timer Test Access Password Test Jump Into Date		☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
7	Rollover 28/02/2001 to 01/03/2001 Day of the Week		☐ ☐	☐ ☐	☐ ☐
8	Rollover 28/02/2002 to 01/03/2002 Day of the Week		☐ ☐	☐ ☐	☐ ☐
9	Rollover 28/02/2003 to 01/03/2003 Day of the Week		☐ ☐	☐ ☐	☐ ☐
10	Rollover 28/02/2004 to 29/02/2004 Day of the Week		☐ ☐	☐ ☐	☐ ☐
11	Rollover to 01/03/2004 Day of the Week		☐ ☐	☐ ☐	☐ ☐

abbreviations:
x,*: arbitrary continuation of the order code
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Product family name	Order code root	Clock (real ti [Software]	Y2K Test [failed]	Y2K compila	Action	Remark
Level						
Deltapilot	DB11-26,32, 40-43	no	not necessary	yes	none	
Deltapilot	FMX160,165	no	not necessary	yes	none	
Deltapilot S	DB 50 - DB 53A	no	not necessary	yes	none	
Durchfluss-Controller	DI12,DTI120,130,	no	not necessary	yes	none	
Electronic Insert	EC16Z/17Z/27Z/47Z/72Z/61Z	no	not necessary	yes	none	
Electronic Insert	EB 11/17Z/20(Z)/21/27Z	no	not necessary	yes	none	
Electronic Insert	EM 11/12/13/21/22/23/17Z	no	not necessary	yes	none	
Electronic Insert	EW 11Z	no	not necessary	yes	none	
Electronic Insert	FEC 12/22	no	not necessary	yes	none	
Electronic Insert	EB 20	no	not necessary	yes	none	
Electronic Insert	EC 11Z, 37Z	no	not necessary	yes	none	
Electronic Insert	EM 17	no	not necessary	yes	none	
Electronic Insert	FEB11,17,20,22,24	no	not necessary	yes	none	
Electronic Insert	FEB17P,20P,22P,24P	no	not necessary	yes	none	
Electronic Insert	EL11-13, EL17Z	no	not necessary	yes	none	
Electronic Insert	FEL31-35,37,67	no	not necessary	yes	none	
Gamma Silometer	FTG 130,380,470,470Z,480,671	no	not necessary	yes	none	
Gamma Silometer	FMG 573Z, 671(P)	no	not necessary	yes	none	
Gamma Detektor	DG17Z,27Z,57Z	no	not necessary	yes	none	
Granucor	DMC170	no	not necessary	yes	none	
Granumet	DME170,671	no	not necessary	yes	none	
Granubelt	DMS170,671	no	not necessary	yes	none	
Granucor	DMK170,671	no	not necessary	yes	none	
Granumet	DC13,DE10,20,DK13,DS10	no	not necessary	yes	none	
Interface	ZAD 423	no	not necessary	yes	none	
Kontaktgeber	HTA380,420,422,470Z	no	not necessary	yes	none	
Kontaktgeber	HAA470Z, HAD470	no	not necessary	yes	none	
Levelflex	FMP 232 A / E - 332 A / E	no	not necessary	yes	none	
Liquiphant	FTL 360/361/365/366/330L	no	not necessary	yes	none	
Liquiphant	FDL 30/35,31/36	no	not necessary	yes	none	
Liquiphant	FTL160,161,260,320,	no	not necessary	yes	none	
Liquiphant	FTL330H,370,372,670	no	not necessary	yes	none	
Liquiphant	FDL17Z,120Z,170Z	no	not necessary	yes	none	
Liquiphant	FDL 60,61	no	not necessary	yes	none	
Micropilot	FMR 130/131/130K/131K/231A/E	no	not necessary	yes	none	
Nachlaufsteuerung	FMM460Z,760Z	no	not necessary	yes	none	
Nivector	FTC 968	no	not necessary	yes	none	
Nivector	FTC 960	no	not necessary	yes	none	
Nivocompact	FTC 131(Z)/231/331(Z)	no	not necessary	yes	none	
Nivocompact	FTW 360	no	not necessary	yes	none	
Nivocompact	FTW130,135,260,331,335Z,330,	no	not necessary	yes	none	
Nivocompact	FTW430,431,730,731,830,831	no	not necessary	yes	none	
Nivocompact	FTW130,131,280,420,470Z,	no	not necessary	yes	none	
Nivocompact	FTW670Z	no	not necessary	yes	none	
Nivopuls	FDU 10 C/S	no	not necessary	yes	none	
Nivosonic	FMU 100/260Z/421/671/673Z/676/678Z	no	not necessary	yes	none	
Nivosonic	FMU 2680 / 2780	no	not necessary	yes	none	
Nivosonic	LTU 675	no	not necessary	yes	none	
Nivosonic	FMU420	no	not necessary	yes	none	
Nivosonic	DU21Z/23Z,46Z,60Z,61Z	no	not necessary	yes	none	
Nivosonic	DU40-44,73,100	no	not necessary	yes	none	
Nivosonic	FMU 2180,2380,2480,2580	no	not necessary	yes	none	
Nivotester	FTC 671 Z / FTC 681 Z	no	not necessary	yes	none	
Nivotester	FTL 320/370/372/670	no	not necessary	yes	none	
Nivotester	FTC 380Z,381Z,382Z,470Z,	no	not necessary	yes	none	
Nivotester	FTC471Z,480Z,481Z,482Z,	no	not necessary	yes	none	
Nivotester	FTC420-422,520,521,580,	no	not necessary	yes	none	
Nivotester	FTC581,582	no	not necessary	yes	none	
Prolevel	FMC 661 / 662	no	not necessary	yes	none	
Prolevel	FMB 662	no	not necessary	yes	none	
Prosonic	FMU 860/860/861/862	no	not necessary	yes	none	
Prosonic T	FMU 130 A / E - 231 A / E	no	not necessary	yes	none	
Prosonic T	FTU 230 A / E - 232	no	not necessary	yes	none	
Prosonic T	FMU232, FTU nur bis 231	no	not necessary	yes	none	
Silometer	FMC 671 Z/K/ 672 Z	no	not necessary	yes	none	
Silometer	FMB 672 Z/ 677 Z	no	not necessary	yes	none	
Silometer	FMC 420/423	no	not necessary	yes	none	
Silometer	FMX 670/770	no	not necessary	yes	none	
Silometer	FMB173,373,	no	not necessary	yes	none	
Silometer	FMC380,383,425,470,672,677	no	not necessary	yes	none	
Soliphant	DM90,91,92Z	no	not necessary	yes	none	
Soliphant	FTM 30,31,32,FTM30S,31S,32S	no	not necessary	yes	none	
Soliphant	FTM 230,260,330,430,930-932	no	not necessary	yes	none	
Soliphant	FEM 31-35,37,41	no	not necessary	yes	none	
Soliswitch	FTE 30/130/330	no	not necessary	yes	none	
Ultraschallschranken	FTU240,421, NU10,11, U3	no	not necessary	yes	none	

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Product family name	Order code root	Clock (real ti [Software]	Y2K Test [failed]	Y2K compila	Action	Remark
Waterpilot	FMX 160	no	not necessary	yes	none	
Pressure						
Cerabar	PMC131/133/135/430Z/531/534(Z)/535(Z)/536(Z)	no	not necessary	yes	none	
Cerabar	PTC 133	no	not necessary	yes	none	
Cerabar	PMC 130,135,230,532,534,535,536	no	not necessary	yes	none	
Cerabar S	PMC 631 / 731	no	not necessary	yes	none	
Cerabar S	PMP 635 / 731	no	not necessary	yes	none	
Cerabar	PTC 531,532,534,535,536	no	not necessary	yes	none	
Cerabar T	PMC131,PMP131	no	not necessary	yes	none	
Commutec	PMX 671 Z / 672 Z/ 676 Z / 677 Z	no	not necessary	yes	none	
Commutec	PMX 170	no	not necessary	yes	none	
Deltaber	PMD 130	no	not necessary	yes	none	
Deltaber	FMD 130/530/531/533	no	not necessary	yes	none	
Deltaber S	PMD 230 / 235	no	not necessary	yes	none	
Deltaber S	FMD 230 / 630 / 633	no	not necessary	yes	none	
Deltaber S	FMD 130	no	not necessary	yes	none	
Pressure Transducer	P 30/31	no	not necessary	yes	none	
Pressure Transducer	PMS 131	no	not necessary	yes	none	
Flow						
AZ 2000 DI680/DMI6880	A2/DO6880	no	not necessary	yes	none	
AZ 3000 DI681	A3	no	not necessary	yes	none	
Dicomag T DMI6731	D3	no	not necessary	yes	none	
Dicomag V DMI6531	DI	no	not necessary	yes	none	
Dosimag A	DDA	no	not necessary	yes	none	
Exmag	EX	no	not necessary	yes	none	
Flow Computer	AMT551/AMT572	no	not necessary	yes	none	
Flow Computer	ZL6351	Software	passed	yes	none	
Flow Computer	ZL6121, ZL6171	no	not necessary	yes	none	
Flow Computer	ZL6370/ZL637A/B/C/D	no	not necessary	yes	none	
Flow Computer compart	DXF351	Hardware	passed	yes	none	
Magpac	MP	no	not necessary	yes	none	
Magphant	DTI200	no	not necessary	yes	none	
Magphant +GF+	DYGF01	no	not necessary	yes	none	
Mastermag	MM	no	not necessary	yes	none	
m-point	MFC	no	not necessary	yes	none	
m-point Honeywell SCM3000	CMD	no	not necessary	yes	none	
Picomag V DMI6530	PI	no	not necessary	yes	none	
Picomag II V DMI6533	P2	no	not necessary	yes	none	
Picomag II T DMI6733	P4	no	not necessary	yes	none	
Procom	DZL383	no	not necessary	yes	none	
Procom II	ZL6072/ZL6042	no	not necessary	yes	none	
Procom ZL	ZL6070/ZL6040	no	not necessary	yes	none	
Promag 30	30A/30F/30H/30D	no	not necessary	yes	none	
Promag 31	31F	no	not necessary	yes	none	
Promag 33	33A/33F/33H/33D	no	not necessary	yes	none	
Promag 35	35S	no	not necessary	yes	none	
Promag 39	39A/39F/39H	no	not necessary	yes	none	
Promass 60	60F/60M/60MP/60A/60I	no	not necessary	yes	none	
Promass 60 NittoSeiko	CLEANFLOW N1 A/M/F	no	not necessary	yes	none	
Promass 63	63F/63M/63MP/63A/63I	no	not necessary	yes	none	
Promass 63 Honeywell SCM3000+	CMA/DMF/CMM	no	not necessary	yes	none	
Promass 63 Nitto Seiko	CLEANFLOW N2 A/M/F	no	not necessary	yes	none	
Promass 64	64A/64M/64F	no	not necessary	yes	none	
Prosonic Flow	DMU93/DDU10/DDU16	no	not necessary	yes	none	
Prowirl 70	70W/70F/70H/70D	no	not necessary	yes	none	
Prowirl 77	77W/77F	no	not necessary	yes	none	
Prowirl70 Honeywell	SVD/SVF/SVH/SVW	no	not necessary	yes	none	
Pulsmag FT C	D4F	no	not necessary	yes	none	
Pulsmag FT DMI6735	M3F	no	not necessary	yes	none	
Pulsmag T DMI6732	M3	no	not necessary	yes	none	
Pulsmag Tecmag DMI8732C	MC	no	not necessary	yes	none	
Pulsmag V	PV	no	not necessary	yes	none	
Speedmag D DI656	SD	no	not necessary	yes	none	
Speedmag P DI655	SP	no	not necessary	yes	none	
Speedmag P II DI661	DP	no	not necessary	yes	none	
Speedmag V DI657	SF	no	not necessary	yes	none	
SW DMV 6330/31 +6332/36	S31/S36	no	not necessary	yes	none	
SW DV 630/DV631	S10	no	not necessary	yes	none	
Tecmag	TEXXXX-	no	not necessary	yes	none	
T-Mass	AT70/AT70F/AT70W	no	not necessary	yes	none	
Variomag	VAXXXX-	no	not necessary	yes	none	
Watermag	DV	no	not necessary	yes	none	
Temperature						
Omnigrad	TA20U-	no	not necessary	yes	none	

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Product family name	Order code root	Clock (real ti Software	Y2K Test failed	Y2K compila	Action	Remark
Omnigrad	TAA100-	no	not necessary	yes	none	
Omnigrad	TAA110-	no	not necessary	yes	none	
Omnigrad	TAA120-	no	not necessary	yes	none	
Omnigrad	TAA130-	no	not necessary	yes	none	
Omnigrad	RZA130-	no	not necessary	yes	none	
Omnigrad	TAA130-	no	not necessary	yes	none	
Omnigrad	RZA130-	no	not necessary	yes	none	
Omnigrad	TCM141-	no	not necessary	yes	none	
Omnigrad	TMC147-	no	not necessary	yes	none	
Omnigrad	RZT101-	no	not necessary	yes	none	
Omnigrad	TMD830-	no	not necessary	yes	none	
Omnigrad	TMD831-	no	not necessary	yes	none	
Omnigrad	RZT201-	no	not necessary	yes	none	
Omnigrad	TMD831-	no	not necessary	yes	none	
Omnigrad	RZT201-	no	not necessary	yes	none	
Omnigrad	TMD832-	no	not necessary	yes	none	
Omnigrad	RTZ202-	no	not necessary	yes	none	
Omnigrad	TMD832-	no	not necessary	yes	none	
Omnigrad	RTZ202-	no	not necessary	yes	none	
Omnigrad	RZT203-	no	not necessary	yes	none	
Omnigrad	TMD834-	no	not necessary	yes	none	
Omnigrad	RTZ204-	no	not necessary	yes	none	
Omnigrad	TMD834-	no	not necessary	yes	none	
Omnigrad	RTZ204-	no	not necessary	yes	none	
Omnigrad	TMD840-	no	not necessary	yes	none	
Omnigrad	TMD842-	no	not necessary	yes	none	
Omnigrad	TMD845-	no	not necessary	yes	none	
Omnigrad	TMD846-	no	not necessary	yes	none	
Omnigrad	TMD855-	no	not necessary	yes	none	
Omnigrad	TMT136-	no	not necessary	yes	none	
Omnigrad	RZT102-	no	not necessary	yes	none	
Omnigrad	TMT137-	no	not necessary	yes	none	
Omnigrad	RZT102-	no	not necessary	yes	none	
Omnigrad	TMT137-	no	not necessary	yes	none	
Omnigrad	TMT146-	no	not necessary	yes	none	
Omnigrad	TMT147	no	not necessary	yes	none	
Omnigrad	TMT2020-	no	not necessary	yes	none	
Omnigrad	TMT2023-	no	not necessary	yes	none	
Omnigrad	TMT2025-	no	not necessary	yes	none	
Omnigrad	TMT2070-	no	not necessary	yes	none	
Omnigrad	TMT2123-	no	not necessary	yes	none	
Omnigrad	TMT2153-	no	not necessary	yes	none	
Omnigrad	TMT2155-	no	not necessary	yes	none	
Omnigrad	TPA100-	no	not necessary	yes	none	
Omnigrad	TRD855-	no	not necessary	yes	none	
Omnigrad	TVD100-	no	not necessary	yes	none	
Omnigrad	TVD655-	no	not necessary	yes	none	
Omnigrad	TVD656-	no	not necessary	yes	none	
Analysis						
Moisture						
Sampling						
AAX	AX-	HW/SW	failed	no	call E+H Service	
ASP 2000	RPS20-	HW/SW	passed	yes	none	
ASP 9260	A9260-	no	not necessary	yes	none	
ASP 9461 D	A9461D-	HW/SW	failed	no	call E+H Service	
ASP 9461 SE	R9461SE-	HW/SW	failed	no	call E+H Service	
ASP 9465 D	A9465D-	HW/SW	passed	yes	none	
ASP 9465 SE	R9465SE-	HW/SW	passed	yes	none	
ASP 9565 D	A9565D-	HW/SW	failed	no	call E+H Service	
ASP Port 2	RPT10-	HW/SW	passed	yes	none	
ASP Port 2 SE	RPT11-	HW/SW	passed	yes	none	
ASP Station 2	RPS1-	HW/SW	passed	yes	none	
ASP Station 2 ISO	RPS10-	HW/SW	passed	yes	none	
ASP Station A	RSTA-	no	not necessary	yes	none	
ASP Station D	RSTD-	HW/SW	passed	yes	none	
AUTOCLEAN	CPC20/CPC20Z	no	not necessary	yes	none	
BITOP	C?M440	no	not necessary	yes	none	
CE 10	CE10-	no	not necessary	yes	none	
CE 11	CE11-	no	not necessary	yes	none	
CE 25	CE25-	HW/SW	passed	yes	none	
CE 26	CE26-	no	not necessary	yes	none	
CE 35	CE35-	HW/SW	passed	yes	none	
Conductivity Measuring cell	CLS51	no	not necessary	yes	none	
DewComp	MCY40	no	not necessary	yes	none	
DewPro	MMR30/MMR31/MMY30/MMY31/MMR101	no	not necessary	yes	none	
E-series	C?M170	no	not necessary	yes	none	

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Product family name	Order code root	Clock (real ti [Software]	Y2K Test [failed]	Y2K compila	Action	Remark
EXALERT	CGD*	no	not necessary	yes	none	
EXALERT	CGC170-51 / 52 / 53	Hardware	passed	yes	none	
EXALERT	CGC170-10/20	no	not necessary	yes	none	
Hand-held	C?M381		not necessary	yes	none	supplier confirmation
HygroGuard	2550	no	not necessary	yes	none	
Hygrolog	WMY570/770	no	not necessary	yes	none	
HygroPro	1900	Hardware	failed	no	manual date correction in leap years (2 March) necessary	no leap year recognition, only date transmission on serial interface affected
Hygrotec	MMY140/150/170	no	not necessary	yes	none	
HygroTwin	18*	Hardware	passed	yes	none	
HygroTwin	2850	Hardware	passed	yes	none	
Injektor	CYR10 (Z)	no	not necessary	yes	none	
Liqui-Box 2	RPB10-	HW/SW	passed	yes	none	
Liqui-Box A	LIBOXA-	no	not necessary	yes	none	
Liqui-Box D	CMA10-	HW/SW	passed	yes	none	
Liqui-Box D	LIBOXD-	HW/SW	passed	yes	none	
Liqui-Compact	LICOMA-	HW/SW	passed	yes	none	
Liqui-Compact 2	RPC10-	HW/SW	passed	yes	none	
Liqui-Port A	RPORA-	no	not necessary	yes	none	
Liqui-Port D	RPORD-	HW/SW	passed	yes	none	
LIQUISYS	C?M220/221/240/252	no	not necessary	yes	none	
MYCOM	C?M121/151	no	not necessary	yes	none	
MYCOM	C?M152	Hardware	passed	yes	none	
MYPEX	C?M340	no	not necessary	yes	none	
MYPRO	C?M431	no	not necessary	yes	none	
pH simulator P191	CPP1	no	not necessary	yes	none	
POOLPAC	CCM360	no	not necessary	yes	none	
Portable pH measuring instrument	CPM180 / CPM380	no	not necessary	yes	none	
Portable measuring instrument	CLM180 / COM180	no	not necessary	yes	none	
Probe	MDR3	no	not necessary	yes	none	
Probe	DY4x	no	not necessary	yes	none	
Probe	DY5x	no	not necessary	yes	none	
Probe	DY7x	no	not necessary	yes	none	
Probe	DY5	no	not necessary	yes	none	
Programme sequencer	CYR20	Hardware	not necessary	yes	none	supplier confirmation
Rh-plus	MR2250	no	not necessary	yes	none	
SEPAC	CLM210	no	not necessary	yes	none	
SMARTEC	CLD130	no	not necessary	yes	none	
Turbidity limit contacter	CUT150	no	not necessary	yes	none	
Turbidity sensor	CUS31/41	no	not necessary	yes	none	
X-series	C?M120/130/140	no	not necessary	yes	none	
z-series	C?M230	no	not necessary	yes	none	
Registration						
Alpha-Log	RSA10-	HW/SW	passed	yes	none	
Chroma-Log L	CHROML	HW/SW	passed	yes	none	
Chroma-Log P	CHROMP	HW/SW	passed	yes	none	
Chroma-Log SL	RSL-	no	not necessary	yes	none	
Chroma-Log SP	CHROSP-	HW/SW	passed	yes	none	
Mega-LOG	ML-	HW/SW	passed	yes	none	
Mega-LOG	MS-	HW/SW	passed	yes	none	
Mega-Log T	MT-	HW/SW	passed	yes	none	
Mega-Log TL	TL-	HW/SW	passed	yes	none	
Mega-Log TN	TN-	HW/SW	passed	yes	none	
Mega-Log TP	TP-	HW/SW	passed	yes	none	
Memo-Graph	RSG10-	HW/SW	passed	yes	none	
Memo-Log	RD10-	HW/SW	passed	yes	none	
Memo-Log S	RD10S-	HW/SW	passed	yes	none	
Mini-Log B	RDL10-	HW/SW	passed	yes	none	
Multi-Count	MULCNT-	HW/SW	passed	yes	none	
Multi-Event	MULEVT-	HW/SW	passed	yes	none	
Multi-Log	MULLOG-	HW/SW	passed	yes	none	
Multi-Rüb	MULRÜB-	HW/SW	passed	yes	none	
Multi-Var	MULVAR	HW/SW	passed	yes	none	
Primo-Bin	PRIBIN	HW/SW	passed	yes	none	
Primo-Bit	PRIBIT-	HW/SW	passed	yes	none	
Primo-Count	PRICNT-	HW/SW	passed	yes	none	
Primo-Count	PRICT-	HW/SW	passed	yes	none	

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Primo-Event	PRIEVT-	HW/SW	passed	yes	none	
Primo-Log	PRILOG-	HW/SW	passed	yes	none	
Primo-Log R	PRILGR-	HW/SW	passed	yes	none	
Uni-Bit	UNIBIT-	no	not necessary	yes	none	
VP 9150	9150-	HW/SW	passed	yes	none	
VP 9250	9250-	HW/SW	passed	yes	none	
VP 9250 B	9250B-	HW/SW	passed	yes	none	
VP 9550 X	9550X-	HW/SW	passed	yes	none	
VP 9552	9552-	HW/SW	passed	yes	none	
VP 9650	9650-	HW/SW	passed	yes	none	
VP 9650 ASP	9650A-	HW/SW	passed	yes	none	
VP 9650 X	9650X-	HW/SW	passed	yes	none	
VP 9651	9651-	HW/SW	passed	yes	none	
VP 9651 X	9651X-	HW/SW	passed	yes	none	
VP 9750	9750-	HW/SW	passed	yes	none	
VP 9750 S	9750S-	HW/SW	passed	yes	none	
Systems						
Communications						
Bios date						
Commubox	FXA 192	no	not necessary	yes	none	
Commulog	VU 130 / 260Z	no	not necessary	yes	none	
Commuwin II	FXS 113	yes	passed	yes	none	V1.41, V1.5x
Current loop interface	ZA 371	no	not necessary	yes	none	
Profibus - PA	Profibus DP/PA Segmentkoppler Ex	no	not necessary	yes	none	
Profibus - PA	Profibus DP/PA Segmentkoppler	no	not necessary	yes	none	
Contactor	HTA182-	no	not necessary	yes	none	
Contactor	HTA380-	no	not necessary	yes	none	
Contactor	HAT423-	no	not necessary	yes	none	
Interface adapter	Interface adapter RS 232C <=>RS 485	no	not necessary	yes	none	
MYCONT	XR15D/M/P/T/XR25	no	not necessary	yes	none	
NX 9120	NX9120-	no	not necessary	yes	none	
NX 9121	NX9121-	no	not necessary	yes	none	
NY 9170 Z	NY9170-	no	not necessary	yes	none	
PC Interfaces - Profibus - FMS	PCMCIA-Karte PROFICARD	no	not necessary	yes	none	
PC Interfaces - Profibus - PA	PCMCIA-Karte PROFICARD	no	not necessary	yes	none	
PC Interfaces - Profibus - PA	PC card PROFIBOARD	no	not necessary	yes	none	
Rackbus Gateway	CONTROLNET-Gateway	no	not necessary	yes	none	
Rackbus Gateways	ZA 370/371/373/375/672/673/674	no	not necessary	yes	none	
Rackbus interfaces	FXN 671/672	no	not necessary	yes	none	
Rackbus interfaces	FMA 671/676	no	not necessary	yes	none	
Rackbus interfaces	FMA 670	no	not necessary	yes	none	
Rackbus interfaces	FTA 670	no	not necessary	yes	none	
RB 222	RB2222/A-	no	not necessary	yes	none	
RIA 250	RIA250-	no	not necessary	yes	none	
RIA 450	RIA450-	no	not necessary	yes	none	
RIA 550	RIA550-	no	not necessary	yes	none	
RN 221	RN221-	no	not necessary	yes	none	
SYSLINE controller	XR35/E/N	no	not necessary	yes	none	
VU 2070	VU2070-	no	not necessary	yes	none	
VU 2520	VU2520-	no	not necessary	yes	none	
VU 2550	VU2550-	no	not necessary	yes	none	
VU 2551	VU2551-	no	not necessary	yes	none	
VU 2620	VU2620-	no	not necessary	yes	none	
VU 2623	VU2623	no	not necessary	yes	none	
VU 2650	VU2650	no	not necessary	yes	none	
VU 2653	VU2653-	no	not necessary	yes	none	
XT 150	XT150-	no	not necessary	yes	none	
XT 170	XT170-	no	not necessary	yes	none	
XT 450	XT450-	no	not necessary	yes	none	
XTN 170	XTN170-	no	not necessary	yes	none	
ZT 9180 Z	ZT9180-	no	not necessary	yes	none	
Accessories						
Applicator	50069592	no	passed	yes	none	Bios Date

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United States July 15, 1999

COMPAQ

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product readiness search

[redacted]

Y2K status

[redacted]

year 2000 program
compliance
warranties
business readiness

[redacted]

PCs, servers, hardware
operating systems, software
networks
storage
solutions

[redacted]

BIOS upgrades
device driver for older PCs & nonstandard applications
NSTL YMARK2000 Test
testing for the year 2000 with Compaq Tru64 Unix
testing for the year 2000 with Open VMS

home user information

guide to making your Compaq home PC Year 2000 ready
Microsoft's "the year 2000 challenge, a guide for home computers"

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sitemap

[redacted]

Results

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Serial Number Results

The following numbers were matched as valid Serial Numbers.

288800-XXX

Product	Presario 4100 series
Model	Presario 4112 P120
Y2K Status	Not Y2K Ready - Requires ROM BIOS Upgrade. Will pass the NSTL YMARK2000 test with minimum (or later) ROM.
Minimum ROM Date	05/25/1997
ROM Family	586T4

privacy and legal statement

COMPAQ

compaq services

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- Storage
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- Presario & Home Products
- Networking Products
- Communication Products
- All SoftPaqs

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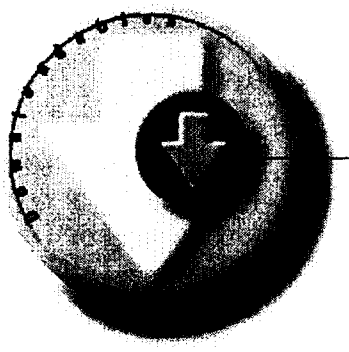

Downloadables

Downloadables are drivers, utilities, support software, and ROM images that help keep your Compaq products operating at peak performance.

- NOTICE:

  This software, including any technical data contained therein, may be subject to U.S. export control laws, including the U.S. Export Administration Regulations of the U.S. Department of Commerce, or any successor regulations thereto, and may be subject to export or import laws and regulations of other countries.

  By downloading this software, you agree that if you export, re-export, or import the software, you are responsible for complying with all such export or import requirements, and obtaining licenses where necessary.

- Locate Downloadables

  Select your Compaq product type on the navigation bar to the left to locate and download support software.

- Locate a SoftPaq

  Search Compaq.com for SoftPaq information: SP

- Download SoftPaqs via FTP

  Direct access to SoftPaqs located on our corporate FTP server.

- What is a SoftPaq?

  If you're a newcomer, select this link to learn about SoftPaqs and how they are used.

COMPAQ compaq services

Support Software Help

Dutch | **English** | French | German | Japanese

Contents

What is a "SoftPaq"?

Each Compaq support software program on the Web and CD Kit is packaged in a compressed file called a "SoftPaq." A SoftPaq is an executable file that extracts files contained inside it. Many SoftPaqs contain diskette images and will require formatted 1.44 MB diskettes. Some SoftPaqs are additionally able to extract their files to a directory on the hard drive. Each SoftPaq will give instructions and, if applicable, extraction options when the SoftPaq is run.

As new versions of software are released, you can go to the Compaq Web site (or the latest release of the CD) to obtain the SoftPaqs needed to update your computer.

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Saving a SoftPaq to Your Hard Drive

1. Create a temporary directory on the computer to hold the SoftPaq(s).For example, create a directory called C:\SOFTPAQ.
2. Browse the Compaq Web site to locate the SoftPaq needed. When the correct SoftPaq has been found, click the Download button.
3. Select the hard drive and directory that will hold the SoftPaq and click Save. This copies the SoftPaq from the Web to the designated directory.

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Running a SoftPaq

1. Run the SoftPaq using the method that corresponds to your environment, as indicated below:

    - If using Windows 95, 98 or NT 4.0, click the Start button and select Run. Browse to the directory that holds the SoftPaq and select the SoftPaq file with the .EXE extension.
    - In Windows 3.1 or NT 3.51, choose File, then Run. Browse to the directory that holds the SoftPaq and select the SoftPaq file with the .EXE extension.
    - In DOS, change to the directory that holds the SoftPaq. At the command prompt, type the name of the SoftPaq (for example, "SP1450") and press Enter.

2. The SoftPaq presents you with a license agreement to read and accept.

3. Many SoftPaqs proceed directly to the creation of diskette(s) and prompt you to specify a target diskette drive. Some SoftPaqs, however, extract files to a directory on the hard drive. One of these files may be called QRST.EXE or a name that's very similar, such as QRST5.EXE. A file may also be called MAKEDISK.BAT, which, when executed, will create diskettes from the files copied to the hard drive. If the QRST file is not present, go to step 4. If it is present, perform the following:

    - Run the QRST program.
    - If the Select Option for Creating Disks prompt appears, press the Enter key.
    - When prompted for the destination drive, type the drive letter of the diskette drive and press Enter.
    - A progress box will show the status of the diskette creation. Follow the instructions if prompted for more diskettes. Continue until all diskettes have been created.

4. The newly made files, on diskette or on the hard drive, should contain a text file with a name similar to README. It explains how to install the software. Be sure to read it, since it may also contain information about the software that is not available elsewhere.

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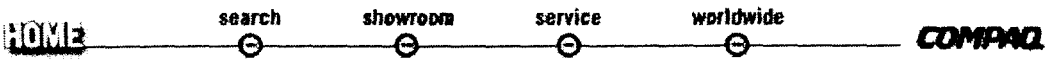

COMMENTS

LEGAL NOTICES AND DISCLAIMER

Revised: 05 April 1999

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U.S. FILTER

FAX

U.S. FILTER/STRANCO
P. O. BOX 389
BRADLEY, IL 60915

TELEPHONE 815-932-8154
800-882-6466
FACSIMILE 815-939-9845

TO: [redacted] **RE** Montgomery Watson

FAX 630-691-5133 **PH**

FROM Mark McTaggart, Strantrol Inside Service **DATE** 7/14/99

SUBJECT Year 2000 Compliance **CC** **Page 1 of 2**

MESSAGE The PB16-1 you refer to is part of the PolyBlend line, covered below as is the REM 1 D

In response to your concerns regarding Year 2000 compliance as it relates to Strantrol controllers and accessories, the following describes the software required to make your Strantrol and PolyBlend equipment compliant. Currently, all PolyBlend controllers are in compliance. All Strantrol controllers will roll over to the Year 2000 correctly, but some will not allow manual entry of the digits "00".

Strantrol 190 Series, Model 72X, REM 1D's, 860's, 870's and 880's are controllers with no date/time stamp involved. The 190 Controllers, Model 72X, REM 1 D's, 860's, 870's and 880's are compliant as shipped. All Water Champ Motors & Controls (including the Subtrol) are in compliance. The following table describes the controller software version that is required for complete compliance of other controllers.

Controller	Strantrol Controller Software Version Required
System 4	Version 4.00 or higher
System 5	Version 1.00 or higher
Model 830	Version 3.00 or higher
Model 890	Version 3.02 or higher
Model 900	Version 4.00 or higher
Model 930	Version 1.07 or higher

All test equipment and quality control practices are Year 2000 compliant. Similarly, all computer firmware distributed with Strantrol controllers are Year 2000 compliant.

If your Strantrol requires upgrading to the ROM software version listed above, please contact U.S. Filter/Stranco at 1-800-882-6466, extension 270. If you have any further questions or comments, please contact Mark McTaggart of the Aquatic or Strantrol Engineering departments at U.S. Filter/Stranco.

Information provided you either in writing or verbally regarding products and services offered by U.S. Filter Corporation or with respect to our Year 2000 processing capabilities or readiness are "Year 2000 Readiness Disclosures" in conformance with the Year 2000 Information and Readiness Disclosure Act of 1998 (Public Law 105-271, 112 Stat. 2386) enacted on October 19, 1998. This designation applies to information delivered directly to you, through or derived from the Company's past or present Year 2000 disclosures.

USFilter

STRANCO PRODUCTS
595 INDUSTRIAL DRIVE
BRADLEY, IL 60915

TELEPHONE 815-932-8154
FACSIMILE 815-939-9845

The Year 2000 issue concerns the potential exposures related to the generation of business and financial misinformation resulting from the use of computer programs which do not properly recognize the applicable date of business transactions. We are currently identifying which of our information technology ('IT') and non-IT systems will be affected by the Year 2000 issues.

Our Year 2000 compliance program consists of three phases: identification and assessment; remediation; and testing. For any given system, the phases occur in sequential order, from identification and assessment of Year 2000 problems, to remediation, and finally, to testing our solutions. However, as we acquire additional businesses, each IT and non-IT system of the acquired business must be independently identified and assessed. As a result, all three phases of our Year 2000 compliance program may occur simultaneously as they relate to different systems.

We have completed the identification and assessment of most of our IT systems, and those systems have been modified to address Year 2000 problems. We will continue to assess the IT systems of businesses that we have recently acquired and that we may acquire in the future.

We are in the identification and assessment phase with respect to all non-IT systems, which is projected to continue until September 1999 for currently owned businesses. These non-IT systems include, among other things, components found in water and wastewater treatment plants and process water treatment systems operated and/or owned under contract by us and in our hazardous waste treatment facilities, as well as components of equipment in our manufacturing facilities.

With the possible exception of the remediation and testing phases for certain of our non-IT systems, all phases of our Year 2000 compliance program are expected to be completed by September 1999, although we can not assure you that all phases for all businesses will be completed by that date.

In particular, we can not assure you that, recently acquired businesses will be Year 2000 compliant, although we currently have a policy that requires an acquisition candidate to represent that such business is Year 2000 compliant. To the extent feasible, we also review the Year 2000 status of acquisition candidates before we complete an acquisition.

In addition to our internal systems, we have begun to assess the level of Year 2000 problems associated with our various suppliers, customers and creditors.

Information provided to you, either in writing or orally regarding products and services offered by U.S. Filter Corporation or with respect to our Year 2000 processing capabilities or readiness are "Year 2000 Readiness Disclosures" in conformance with the Year 2000 Information and Readiness Disclosure Act of 1998 (Public Law 105-271, 112 Stat. 2386) enacted on October 19,1998. This designation applies to information delivered directly to you, through or derived from the Company's past or present Year 2000 disclosures.

Crouzet

Crouzet Corporation

Corporate Headquarters:
3237 Commander, Carrollton, TX 75006
(972) 250-1647 Fax: (972) 250-3865

Syrelec
Timer

To: MONTGOMERY WATSON
Scott

Crouzet Timers & Counters
Do not have real time clocks,
Therefore, are not required to be
Y2K compliant.

RE: PART NUMBER: ALL PARTS

Subject: Certification of Y2K Compliance Status

This is to certify that Crouzet Corporation is cognizant of the issues, which must be addressed in order to be in compliance with Y2K requirements. Further, Crouzet Corporation expects to be fully compliant for Y2K by 7/31/98.

We wish to emphasize that the products manufactured by Crouzet Corporation have no impact with relation to Y2K issues.

Crouzet Corporation is near completion of the process of updating all internal software and hardware systems to be Y2K Compliant.

Crouzet Corporation has also surveyed its supplier base to obtain confirmation and certification of Y2K compliance. We note the products provided to us by our suppliers also have no impact on our ability to be Y2K Compliant.

Please contact Doug Smith if concerns remain relative to Y2K compliance by Crouzet Corporation.

Thank You,

Gerald Vincent
President

NOTE: This form of certification has been sent in lieu of direct response on customer supplied documents. We have received hundreds of such inquiries and it is impractical and inefficient to have someone allocate time to respond to each on an individual basis.

EHB@moore-solutions.com on 07/12/99 01:16:50 PM

To: Scott J Sherman/User/Americas/Montgomery Watson@MW
cc:

Subject: RE: Y2K compliance

Scott, That's listed under the hardware section as 340.

Moore Process Automation Solutions
Ted Bell
Manager of Quality
Phone: (215) 646-7400 X2140
Fax: (215) 646-6212
E-mail: ehb@moore-solutions.com
Web: www.moore-solutions.com

-----Original Message-----
From: Scott.J.Sherman@mw.com [mailto:Scott.J.Sherman@mw.com]
Sent: Monday, July 12, 1999 9:20 AM
To: Ted Bell
Subject: Y2K compliance

Mr. Bell,

My name is Scott Sherman. I am working with Montgomery Watson on their Y2K compliance issues. In one of our treatment plants, we have an XTC 340 series pressure transmitter. I recently found your company's Y2K compliance product matrix. I have been unable to find the XTC 340 series transmitters within that list. I was wondering if you might be able to point me in the right direction.
I can be reached via email, phone (630) 691-5000 X5064 or by fax (630) 691-5133.

Thanks,
Scott

Process Automation Solutions

Year 2000 Compliance

Year 2000 Compliance Product Matrix

Hardware Products (Last Updated 06-July-99)

The following is a comprehensive list of Moore's product offerings and their current Year 2000 Compliance Status. As further information is made available on this topic and as additional testing is conducted we will update this list accordingly. If you have any questions concerning this list, please contact Edward H. (Ted) Bell (215-646-7400 x2140, Fax: 215-646-6212, E-mail: ehb@mpco.com).

Year 2000 Status Codes:

0 = Compliant product (No electronics.)
1 = Compliant product (Electronic, not time aware.)
2 = Compliant product (Electronic, time aware.)
2A = Compliant product when known anomalies are fixed in Revision X.YZ which will be available on month/year. (Refer to Summary Report.)
3 = Time aware product with some anomalies. Product is fully functional. Workarounds do exist to achieve Year 2000 compliance. (Refer to Summary Report.)
3A = Time aware products with some anomalies. Product is fully functional. Workarounds do not exist to achieve Year 2000 compliance. (Refer to Summary Report.)
4 = Noncompliant product. Product functionality will be adversely affected due to Year 2000 related anomalies. (Refer to Summary Report.)
5 = Testing in progress
6 = No Testing Planned (These are products that we do not plan to test. Consult the factory if you would like on-site testing performed.)

There are test summaries for those products that have anomalies. These summary documents can be accessed directly from the appropriate line in the appropriate product matrix, and detailed information may also be requested.

There are not test summaries for those products with no anomalies. However, detailed test information for these compliant products may also be requested from within the product matrix.

Please note that detailed test information will be furnished to confirmed Moore customers.

When a specific software revision is listed after a product's description, that is the specific revision that was tested and the associated status code applies only to that revision. If no revision is listed after the product, that indicates that the status code applies to all versions of that product.

NOTE:

Any control system may consist of components from multiple vendors, in addition to extensive end user configuration and programming. Therefore, Moore strongly recommends that users also conduct Year 2000 testing of their specific system configuration. For information concerning on-site services, please contact Charles L. (Roi) Leeser (215-646-7400 x2120, Fax: 215-283-6343, E-mail: Year 2000 Services@mooreproducts.com).

HARDWARE PRODUCTS				
Product ID Number	**Description**	**Status Code**	**Last Updated**	**Test Information**
10	Differential Pressure Transmitter	0	**11 Sep 98**	
11	H/P Differential Pressure Transmitter	0	**11 Sep 98**	
116	Linear Flow Transmitter	0	**11 Sep 98**	
14	Moore 14 Fluidic Flowmeter (coanda thermal)	1	**11 Sep 98**	
140	Fluidic Flowmeter (momentum exchange deflection)	1	**11 Sep 98**	
141	Moore 141 Fluidic Flowmeter (coanda deflection)	1	**11 Sep 98**	
142	Moore 142 Fluidic Flowmeter (coanda thermal)	1	**11 Sep 98**	
173	Non-Indicating Pressure Transmitter	0	**11 Sep 98**	
175	Non-Indicating Pressure Transmitter	0	**11 Sep 98**	
18	Pressure Transmitter	0	**11 Sep 98**	
19	Level Transmitter	0	**11 Sep 98**	
20	Liquid Level Transmitter	0	**11 Sep 98**	
21	Liquid Level Transmitter	0	**11 Sep 98**	
2306	Filter Dripwell	0	**11 Sep 98**	
25	Liquid Level Controller	0	**11 Sep 98**	
27	Liquid Level Controller	1	**11 Sep 98**	
271	Liquid Level Controller	1	**11 Sep 98**	
320	Independent Computer	1	**11 Sep 98**	

	Interface		11 Sep 98	
321	Local Expansion Satellite (LES)	1	**16 Dec 98**	
324	Programmable Sequence Controller (PSC) with Real Time Clock (RTC) Option	4	**09 Apr 99**	Status Report
324	Programmable Sequence Controller (PSC) without Real Time Clock (RTC) Option	1	**09 Apr 99**	
325	Universal Remote Interface	1	**11 Sep 98**	
33	Temperature Transmitter	0	**11 Sep 98**	
340	Electronic D/P Cell	1	**11 Sep 98**	
341	Coplaner Electronic D/P Cell	1	**11 Sep 98**	
342	Magnetic Flowmeter	1	**11 Sep 98**	
343	Moore 343 Smart Temperature Transmitter	1	**11 Sep 98**	
344	Moore 344 Temperature Transmitter-Controller	1	**11 Sep 98**	
348	Moore FIELDPAC 348 Field-Mounted Controller	1[4]	**9 Oct 98**	
350	Elec Analog Control Station	1	**11 Sep 98**	
351	Moore 351 Triple Loop Digital Controller	1	**11 Sep 98**	
352	Moore 352 Single Loop Digital Controller (SLDC)	1	**11 Sep 98**	
352P	Moore 352P Single-Loop Digital Controller	1	**20 Nov 98**	
353	Moore 353 Process Automation Controller	1	**25 Sep 98**	
354 (All Versions)	Moore 354 Universal Control Station	2	**25 Sep 98**	
36V (All Versions)	Moore 36V video recorder	2	**11 Sep 98**	
36P (All Versions)	Moore 36P continuous trace recorder	2	**11 Sep 98**	
36M (All Versions)	Moore 36M multi-point paper recorder	2	**11 Sep 98**	
36C (All Versions)	Moore 36C circular chart paper recorder	2	**12 Jan 99**	

	paper recorder			
360	Electronic Recorder	1	**11 Sep 98**	
361	Electronic Recorder	1	**11 Sep 98**	
362	Electronic Recorder	1	**11 Sep 98**	
363 V.BBD	Electronic Digital Recorder	2	**19 Feb 99**	Test Results
372	Electronic Indicator	1	**11 Sep 98**	
375	Electronic Vertigage	1	**11 Sep 98**	
380	Acromag Module	1	**11 Sep 98**	
382	Moore 382 Logic & Sequence Controller	1	**25 Sep 98**	
383	Moore 383 Multi-Point Display Station	1	**11 Sep 98**	
385	Moore 385 Loop Operator's Station	1	**11 Sep 98**	
390MM14 V.BMA	Configurable CRT Station (CCS)	4	**01 Feb 99**	Test Summary
3910 (All Versions)	Multiloop Controller (MLC) (without Real Time Clock (RTC) option)	2	**01 Feb 99**	
3910	Multiloop Controller (MLC) (with Real Time Clock (RTC) option) (RTC Board Numbers: 15737-83, -84, -127, -128)	3A	**01-Feb-99**	Test Summary
3912 (All Versions)	Modular Multiloop Controller (MMLC) (without Real Time Clock (RTC) option)	2	**01 Feb 99**	
3912	Modular Multiloop Controller (MMLC) (with Real Time Clock (RTC) option) (RTC Board Numbers: 15737-83, -84, -127, -128)	3A	**01 Feb 99**	Test Summary
3914M	Modular Batch Controller	6	**11 Sep 98**	
3922 (All Versions)	Multiloop Controller (MLC) (NEMA 12) (without Real Time Clock (RTC) option)	2	**01 Feb 99**	
3922	Multiloop Controller (MLC) (NEMA 12) (with Real Time Clock (RTC) option) (RTC	3A	**01 Feb 99**	Test Summary

	Board Numbers: 15737-83, -84, -127, -128)			
3924	Modular Data Acquisition Satellite (MDAS)	1	**01 Feb 99**	
	Data Acquisition Satellite	1	**01 Feb 99**	
3931	Independent Computer Interface	1	**11 Sep 98**	
3932	Independent Computer Interface	1	**11 Sep 98**	
3934	Independent Computer Interface	1	**11 Sep 98**	
39ACM.. 2MB V4.30	Advanced Control Module (ACM)	2A	**18 Dec 98**	Test Summary
39ACM.. 4MB V4.30	Advanced Control Module (ACM)	2A	**18 Dec 98**	Test Summary
39ACM.. 8MB V4.30	Advanced Control Module (ACM)	2A	**18 Dec 98**	Test Summary
39ACM...V4.32 or Later	Advanced Control Module (ACM)	2	**19 Feb 99**	Test Results
39BDM	Bus Diverter Module (BDM)	1	**16 Dec 98**	
39EAMCBN V3.01	Enhanced Analog Module (EAM)	2	**18 Dec 98**	Test Results
39HFM2CAN V3.02	HART Fieldbus Module (HFM)	2	**18 Dec 98**	Test Results
39ICM V1.00	Industrial Computer Module (ICM)	3	**18 Dec 98**	Test Summary
39IDM115ACCBN V3.00	Input Discrete Module (IDM) - 115vac	2	**18 Dec 98**	Test Results
39IDM230ACCBN V3.00	Input Discrete Module (IDM) - 230vac	2	**18 Dec 98**	Test Results
39IFX	Fiber Optic Line	1	**11 Sep 98**	
39LIM2HCAN V3.00	Link Interface Module (LIM)	2	**12 Jan 99**	Test Results
39MBI	Modulbus Interface (MBI) Card	1	**11 Sep 98**	
39MBXNAN	Modulbus Expander Module (MBX)	1	**11 Sep 98**	
39MNI	Module Network Interface (MNI) Board	1	**11 Sep 98**	

39MODULRAC	MODULRAC (10 slot rack)	1	**12 Jan 99**	
39MODUPAC	MODULRAC Industrial Enclosure	1	**12 Jan 99**	
39M15 (DHS) V.BHB	Distributed Historian Station (DHS)	5	**22 Feb 99**	
39M16 (ACS) V.BMA	Area CRT Station (ACS)	4	**01 Feb 99**	Test Summary
39M17	Auxiliary CRT Station	1	**11 Sep 98**	
39M18 V.BMA	Industrial Operator Station	4	**01 Feb 99**	Test Summary
39NIM V1.00	Network Interface Manager (NIM)	3	**18 Dec 98**	Test Summary
39ODM115ACCBN V3.00	Output Discrete Module (ODM)	2	**18 Dec 98**	Test Results
39POWERAC	POWERAC Power Supply Rack	1	**12 Jan 99**	
39PSM	Power Supply Module (PSM)	1	**12 Jan 99**	
39PSR	Power Supply Rack (PSR)	1	**12 Jan 99**	
39RIC	Rackmount Industrial Computer (RIC), Intel Platform Advanced/MA (Pentium) (39RIC..AX = Advanced/MA)	3[10]	**12 Jan 99**	Test Results
39RIC	Rackmount Industrial Computer (RIC), Intel Platform Advanced/RH (Pentium) (39RIC..BXorCX = Advanced/RH)	3[9]	**12 Jan 99**	Test Results
39RNI	Rackmount Network Interface (RNI), Intel Platform Advanced/MA (Pentium) (39RNI512..AX = Advanced/MA)	3[10]	**06 Jul 99**	Test Results
39RNI	Rackmount Network Interface (RNI), Intel Platform Advanced/RH (Pentium) (39RNI..BX = Advanced/RH)	3[9]	**12 Jan 99**	Test Results
39RNI	Rackmount Network Interface (RNI), Intel Platform Advanced/MN (Pentium)	3[14]	**06 Jul 99**	

	(Peridiam) (39RNI511..BAN = Advanced/MN)			
39RTMCAN V3.01	Resistance Temperature Module (RTM)	2	**18 Dec 98**	Test Results
39SAMCAN V3.05	Standard Analog Module (SAM)	2	**18 Dec 98**	Test Results
39SCMNNNAAN V4.00	Satellite Control Module (SCM)	5	**12 May 99**	Status Report
39SDI024DCNAN	Satellite Discrete Input (SDI) 24 VDC	1	**11 Sep 98**	
39SDI115ACNAN	Satellite Discrete Input (SDI) Card 115 VAC	1	**11 Sep 98**	
39SDM024DCAAN V3.01	Standard Discrete Module (SDM)	2	**6 Jul 99**	Test Results
39SDM024DCCBN V3.22	Standard Discrete Module + (SDM+) 24 vdc	2	**12 Jan 99**	Test Results
39SDM048DCCBN V3.22	Standard Discrete Module + (SDM+) 48 vdc	2	**12 Jan 99**	Test Results
39VIMCCN V3.02	Voltage Input Module (VIM)	2	**18 Dec 98**	Test Results
40	Pressure Regulator	0	**11 Sep 98**	
405	Force Transmitter	0	**11 Sep 98**	
41	Pressure Regulator	0	**11 Sep 98**	
415	Force Transmitter	0	**11 Sep 98**	
42	Pressure Regulator	0	**11 Sep 98**	
43	Pressure Regulator	0	**11 Sep 98**	
44	Pressure Regulator	0	**11 Sep 98**	
47x	M/P Control Station	0	**11 Sep 98**	
50AP	Delta-P Cell Transmitter	0	**11 Sep 98**	
50DP	Delta-P Cell Transmitter	0	**11 Sep 98**	
50PW	Delta-P Cell Transmitter	0	**11 Sep 98**	
50x	Controller	0	**11 Sep 98**	
511	Syncro Ind Control Station	0	**11 Sep 98**	
513	M/P Control Station	0	**11 Sep 98**	
514	M/P Manual Loading Station	0	**11 Sep 98**	

515	M/P Control Station	0	**11 Sep 98**	
516	M/P Control Station	0	**11 Sep 98**	
518	Syncro III Control	0	**11 Sep 98**	
5187	Computer Set Syncro III	0	**11 Sep 98**	
51V	Vertigage	0	**11 Sep 98**	
521	Syncro Ind Control Station	0	**11 Sep 98**	
522	Mini-Syncro Receiver Gague	0	**11 Sep 98**	
523	M/P Control Station	0	**11 Sep 98**	
525	M/P Control Station	0	**11 Sep 98**	
526	M/P Control Station	0	**11 Sep 98**	
5287	Computer Set Syncro III	1	**11 Sep 98**	
52N	M/P Control Station	0	**11 Sep 98**	
52V	Vertigage	0	**11 Sep 98**	
53xx	Recorder/Rec Cont Station	0	**11 Sep 98**	
54	Ratio Station	0	**11 Sep 98**	
547	Syncro III Ratio Station	0	**11 Sep 98**	
548	Syncro III Ratio Station	0	**11 Sep 98**	
55	Controller	0	**11 Sep 98**	
56x	Controller	0	**11 Sep 98**	
58	H/L & H/P Selector Relays	0	**11 Sep 98**	
60	Booster Pilot Valve	0	**11 Sep 98**	
60N	Pilot Valve	0	**11 Sep 98**	
61	Amplifying & Reducing Relay	0	**11 Sep 98**	
61VH	Hi Capacity Booster Relay	0	**11 Sep 98**	
62	Constant Differential Relay	0	**11 Sep 98**	
63	Constant Differential Flow Controller	0	**11 Sep 98**	
65	Square Root Extractor	0	**11 Sep 98**	

66	Amplifying & Reducing Relay	0	**11 Sep 98**	
67	Precision Relay	0	**11 Sep 98**	
671	Precision Relay	0	**11 Sep 98**	
671A	Precision Relay	0	**11 Sep 98**	
672	Precision Relay	0	**11 Sep 98**	
68	M/F Computing Relay	0	**11 Sep 98**	
680	Multi-Function Relay	0	**11 Sep 98**	
681	Multi-Function Relay	0	**11 Sep 98**	
69	Reversing Relay	0	**11 Sep 98**	
70	Valve Positioner	0	**11 Sep 98**	
71	Valve Positioner	0	**11 Sep 98**	
72	Valve Positioner	0	**11 Sep 98**	
73	Valve Positioner	0	**11 Sep 98**	
74	Valve Positioner	0	**11 Sep 98**	
750E	Valve Positioner	1	**11 Sep 98**	
750P	Valve Positioner	0	**11 Sep 98**	
760D	Smart Valve Positioner	1	**11 Sep 98**	
760E	Universal Valve Positioner	1	**11 Sep 98**	
760P	Universal Valve Positioner	0	**11 Sep 98**	
77	E/P Transducer	1	**19 Feb 99**	
771	E/P Transducer	1	**19 Feb 99**	
772R	I/P Transducer	1	**11 Sep 98**	
773D	I/P Transducer	1	**11 Sep 98**	
773F	I/P Transducer	1	**11 Sep 98**	
7712	E/P Millivolt Converter	1	**12 Mar 99**	
7720	E/P Millivolt Converter	1	**12 Mar 99**	

7730	E/P Millivolt Converter	1	**11 Sep 98**	
7731	E/P Millivolt Converter	1	**11 Sep 98**	
7732	E/P Millivolt Converter	1	**11 Sep 98**	
7733	E/P Millivolt Converter	1	**11 Sep 98**	
7734	E/P Millivolt Converter	1	**11 Sep 98**	
781	P/E Transducer	1	**11 Sep 98**	
785	Rack Mounted P/E Transducer	1	**11 Sep 98**	
79	4-Way Hydraulic Valve	0	**11 Sep 98**	
91F	Filter Regulator	0	**11 Sep 98**	
99	SSPH Liquid Level Valve	0	**11 Sep 98**	
15738-119	Mounting Case 40 Terminals	1	**9 Oct 98**	
15738-120	Mounting Case 20 Terminals	1	**9 Oct 98**	
15965-665	Moore XTC Communicator (MXC)	6	**9 Oct 98**	
MODULR5/6	5/6 Slot Modulrac	1	**18 Sep 98**	
QLACM12BBN V3.02	QUADLOG Advanced Control Module (ACM)	2A	**12 Jan 99**	Test Summary
QLBCMNBN	Bus Continuation Module (BCM)	1	**18 Sep 98**	
QLBDMNBN	Bus Diverter Module (BDM)	1	**18 Sep 98**	
QLCAM. . . V3.00	QUADLOG Critical Analog Module	2	**12 May 99**	Test Results
QLCCM12ABN V3.01	QUADLOG Critical Control Module (CCM)	2A	**12 Jan 99**	Test Summary
QLCCM...V3.30 or Later	QUADLOG Critical Control Module	2	**19 Feb 99**	Test Results
QLCDM024DCAAN V3.02	QUADLOG Critical Discrete Module (CDM) 24 VDC	2	**12 Jan 99**	Test Results
QLCDM048DCAAN V3.02	QUADLOG Critical Discrete Module (CDM) 48 VDC	2	**12 Jan 99**	Test Results
QLEAMBBN V3.00	QUADLOG Enhanced Analog Module (EAM)	2	**18 Dec 98**	Test Results
QLIDM115ACBBN V3.00	QUADLOG Input Discrete Module (IDM)	2	**18 Dec 98**	Test Results

QLIDM230ACBBN V3.00	QUADLOG Input Discrete Module (IDM)	2	**18 Dec 98**	Test Results
QLMBXNAN	QUADLOG Modulbus Expander (MBX)	1	**11 Sep 98**	
QLODM115ACBBN V3.00	QUADLOG Output Discrete Module (ODM)	2	**18 Dec 98**	Test Results
QLRTMBAN V3.00	QUADLOG Resistive Temperative Module (RTM)	2	**18 Dec 98**	Test Results
QLSAMBAN V3.00	QUADLOG Standard Analog Module (SAM)	2	**18 Dec 98**	Test Results
QLSDM024DCBBN V3.02	QUADLOG Standard Discrete Module + (SDM+) 24 VDC	2	**12 Jan 99**	Test Results
QLVIMBCN V3.00	QUADLOG Voltage Input Module (VIM)	2	**18 Dec 98**	Test Results
UNIRAC	Single slot module rack	0	**11 Sep 98**	

Footnotes:

[2] Product does not have any critical functionality that uses dates, so it will not be tested. The only time a date is used in this product is when a configuration is printed out and the date is printed on the configuration.

[4] This device has an arbitrary date field that can be set by the customer, but has no real time functionality. This device maintains no clock or calendar.

[5] Previous offering now obsolete for new systems. Compatible with BIOS 1.00.04.CV2 and later. BIOS can be downloaded from http://www.intel.com/design/motherbd/rh/rh_bios.

[6] Previous offering now obsolete for new systems. Compatible with BIOS 1.00.06.BRO and later. BIOS can be downloaded from http://support.intel.com/support/motherboards/desktop/archieve/bios/10006BRO.htm.

[7] Compatible with BIOS 1.00.02.CS1and later. BIOS can be downloaded from http://www.intel.com/design/motherbd/vs/vs_bios.

[9] The RIC/RNI are Year 2000 capable with BIOS 1.00.04.CV2 and later. The latest BIOS, 1.00.13.CV2, can be downloaded from http://developer.intel.com/design/motherbd/rh/rh_bios.htm if desired.

[10] Previous offering now obsolete for new sales. The RIC/RNI are Year 2000 capable with BIOS 1.00.06.BU0 and later. The latest BIOS for the Advanced/MA motherboard is 1.00.07.BU0 which can be selected from Intel's web site at http://support.intel.com/support/motherboards/bios.htm.

[14] Previous offerering now obsolete for new sales. The RNI is not Year 2000 compliant, however, there are fewer anomalies with BIOS 1.00.08BT0 or higher. For details, please refer to Intel's website @ http://apps.intel.com/scripts.year2000lookup/detail.asp?intproductID+51&intlanguageID=1. The latest BIOS for the Advanced/MN motherboard is 1.00.09.BT0 which can be downloaded from Intel's website @ ftp://download.intel.com/design/motherbd/other,select 10009BT0.exe.

Back to Year 2000 Menu

Updated 07/07/99

Y2K Comments: EHB@mpco.com

Comments: Webmaster@mooreproducts.com

AMETEK U.S. GAUGE DIVISION
PMT PRODUCTS
820 PENNSYLVANIA BLVD., FEASTERVILLE, PA 19053

ISO 9001 CERTIFICATE NO. A3779

☎ 215-355-6900
FAX 215-364-9537

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FACSIMILE COVER SHEET

To: Scott Sherman
Company: Montgomery Watson
Phone: 630-691-5000 x 5064
Fax: 630-691-5133
From: Robert W. Finch
Company: AMETEK
Phone: 215-355-6900
Fax: 215-355-2937

Date: July 13, 1999
Pages including this cover page: 1

Dear Scott,
AMETEK 575 Submersible Transducer does not have a date function or a real time clock and is are affected by date changes.

Best regards,

Robert W. Finch

Robert W. Finch
Product Application Specialist

17

DREXELBROOK
Engineering Company

July 12, 1999

To: Scott Sherman - Montgomery Watson
FAX: 630/691-5133
From: Donald W. Koeneman, Product Manager
Subject: **The "Year 2000 Issue"**

Drexelbrook's complete line of level transmitters contain no internal clocks, timing devices or circuits. They do not have the ability to recognize day, date or time. No testing is required to determine full year 2000 compliance. **Specific to you request, Drexelbrook Model 502-3000 RF Level switch with 402-3000 electronic transmitter falls in this category.**

The following is a list of Drexelbrook products that <u>are</u> affected by this issue, and the corrective action that must be accomplished to return to a normal operating condition:

- **DE-8000 Microprocessor Receiver** - Only affected if it is being used with a Printer.

If used with a printer, once the date changes over from '99 to '00 (at midnight on 12-31-99) the "System" **will not print.** The user will have to re-enter the Print menu via the keypad and **re-program the date and time**, then the system will regain its ability to print. Further information on making this change in the Print menu can be found in the DE-8000 Instruction Manual in Section **5.8.5 Time**. For more information, or help with this procedure, contact our Service Department at 1-800-527-6297.

No other Drexelbrook products are affected.

If you have any further questions, I may be contacted at the letterhead numbers.

Don Koeneman

205 Keith Valley Road Horsham, PA 19044-1499 Tel. (215) 674-1234 Fax (215) 674-2731

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June 1, 1999

Year 2000 Readiness Disclosure

Dear Valued Customer,

This Year 2000 Readiness Disclosure is provided concerning the Best Power™ UPS hardware and software products listed below. If you have a question on any other Best Power product, please contact Robert Jacobs at (972) 491-2118 or robert.jacobs@bestpower.gensig.com. Compliance, as described below by product line, is determined in accordance with the BSI standard, A DEFINITION OF YEAR 2000 CONFORMITY REQUIREMENTS, a copy of which is attached. The operation of the Best Power UPS hardware and software products will not be adversely affected by the Year 2000 subject to the following conditions:

Uninterruptible Power Source

Dates Tested

Best Power has tested the following specific date transitions or rollovers: December 31, 1998 to January 1, 1999; September 9, 1999 to September 10, 1999; December 31, 1999 to January 1, 2000; February 28, 2000 to February 29, 2000 to March 1, 2000; December 31, 2000 to January 1, 2001; December 31, 2004 to January 1, 2005.

Test Procedures

The models of products listed have been reviewed to ensure that operational issues will not be encountered for the rollover from 1999 to 2000 and the other listed date transitions. Models of listed products with date functionality were tested by forcing dates to just prior to the date rollover or transition and checking product functionality in the transition.

Copies of written test procedures are available on-line for the hardware products. Please contact Steve Crow at steve.crow@bestpower.gensig.com or (608)565-5347 if you have questions about the test procedures.

If your Year 2000 compliance committee requires on-site testing or verification and you would like to schedule a test, please contact Best Power Service department at 1-800-356-5737 ext 3500 or best.service@bestpower.gensig.com to learn more about scheduling on-site tests. A portion of the test requires power to be removed from the UPS. If your UPS has not been installed or maintained appropriately, this step could cause you to lose power to your loads. You must ensure there are no critical loads powered by the UPS in this step. The amount of time for a test may also vary by product and the particular product application.

Interfacing of Time and Date Data

Note that generally the Best Power UPS hardware products are power protection devices that do not rely upon or use actual time algorithms for time and date functionality. Certain Best Power UPS hardware products include firmware functionality that generates time/date information that is intended to be used only as a date log for tracking the relative time and date of certain events, e.g. power outage, and possibly for diagnostics. This information is not intended to be exported for other system control functions or calculations or to provide control data for other operations. Other Best Power UPS hardware products listed do not and are not intended to store or communicate any time or date information as part of their design functionality.

Best Power CheckUPSâ and CheckUPS II Software is a commercial-off-the-shelf product that is designed to receive the reference date from the host computer and thus is dependent upon the accuracy of that information and the Year 2000

compliance of the host computer system. Best Power assumes no liability and makes no warranty of any kind regarding the host computer and any other systems operating on or with the software.

Best Power UPS Hardware Products:

Patriotâ , Patriot Plus & Patriot Pro

Model prefix = 0305, SPS, SPI, SMT, PNP, PP. Do not store or communicate date information; therefore, a test is not applicable.

Best 310, 510, 610 and Sola 310, 510, 610 (available outside North America)

Models = 310, 510, 610. Do not store or communicate date information; therefore, a test is not applicable.

Fortress™

Current generation - Model prefix 0520 (manufactured since June 1998). Do not store or communicate date information; therefore, a test is not applicable.

Prior generation – Models LI520A/E/J/P/U, LI720A/E/J/P/U, LI1020A/E/J/P/U, LI1420A/E/J/P/U (manufactured since October 1996).

Comply based on test procedure.

Prior generation – Models LI360, LI460, LI660, LI675, LI750, LI720BR/DR, LI950, LI1020BR/DR, LI1.3K, LI1420BR/DR, LI1.7K, LI2.0K, LI2.5K/PX, LI3.0K/PX, LI5.0K (manufactured since June, 1991). Do not store or communicate date information; therefore, a test is not applicable.

UNITY/I™

Single-phase models UT3K, UT4K, UT5K and UT8K and Three-phase models UT310 through UT3220. Comply based on the test procedure.

The test procedure on UNITY/I Three Phase products requires access to an area containing critical calibration parameter values. Incorrect, inadvertent changes in these non-date related parameters could cause the UPS to malfunction and possible unnecessary downtime of your load equipment and serious bodily injury. If you wish to have this test performed, contact the Best Power service department to arrange a Best Power Service Representative to perform the test for you.

FERRUPS™

Current generation - Model Prefix 0800 (manufactured beginning August 1998). Comply based on test procedure.

Current generation – Model prefix FE /, FER /, FES /, QFE /, QFER ,/ QFES (manufactured beginning February 1994). Units with software version 8.09 (manufactured beginning April 1998) comply based on test procedure. Units with software version 8.08 and prior versions, comply based on test procedure, subject to the following note.

The FE series FERRUPS with software version 8.08 and prior versions will correctly increment dates from 01/01/1988 to 01/01/2087 with the following exception. The Parameter #10 display changes from 12/31/99 to 01/01/10 when displayed on a FERRUPS keypad. When displayed on a terminal, the date is correctly shown as January 1, 2000. *The fact that Parameter #10 does not show the year correctly on the keypad display, will not affect the operation of the UPS in any way.* To reset Parameter #10 to display the correct year, simply follow the instructions for setting the date in the FERRUPS User Manual any time after the turn of the century.

All previous generations – Model prefix FD, / QFD, / ME, / QMD, / FC, / QFC, / MD, / QMD, / RE, / RD, / RC, / RM, / MX, / F, / M, / R, (manufactured prior to November 1994). Do not store or communicate date information that designates the year; therefore, a test is not applicable.

UBS

Models UBS 24, UBS 48, UBS 120 and UBS 168. Comply based on the test procedure. These units display a 2-digit year code.

Best Power Software Products and Accessories:

CheckUPS II Software

The software by itself has no date sensitivity. Current generation - CheckUPS II Version 3.2 – Complies based on test performed on selected computers by forcing date changes in the host computer system. Note that the date information is taken by the software from the host computer system. Best Power can provide a general test procedure, but the owner must adapt the procedure for its host computer. The host computer and its software should be checked by the customer for Year 2000 compliance. Best Power makes no representations or warranties regarding the Year 2000 compliance of the host computer or any third party product.

CheckUPS II version 3.11 for Novell Netware does not display the date correctly but can be fixed by upgrading to Version 3.2 at no charge.

Updates of Best Power software can be downloaded free of charge from Best Power's Web site at www.bestpower.com.

Accessories

BestLink SNMP/WEB adapter: Complies based on test procedure.

Envirocom I & II, Ethernet and Token Ring SNMP adapters, handheld remote controls, Internal and External Bypass Switches (Part number prefix BYI, BPI, SWI BYE, BPE, SWE or SW) are accessories that do not store or process date information; therefore a test is not applicable.

General Legal Information

This description of hardware and software product performance related to Year 2000 Compliance is provided as a courtesy to customers who have purchased Best Power UPS hardware and software products and is not intended to supplement or change in any way the contract by which a customer purchased any product from Best Power or the Limited Warranty provided with the particular Best Power product or software. The contract for sale by which customers purchased any listed product from Best Power and the Best Power Limited Warranty for the product contain the sole obligations between such customers and Best Power or any of its affiliates with respect to the products.

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The information on this website constitites a Year 2000 Readiness Disclosure pursuant to the Year 2000 Information and Readiness Disclosure Act of the United States of America.

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Year 2000 Status Definitions

Product Description	Catalog/Bulletin Number	Status	Notes
I/O			
	1492-IFMxxx	No Clock	
	1746-A10	No Clock	
	1746-A13	No Clock	
	1746-A2	No Clock	
	1746-A4	No Clock	
	1746-A7	No Clock	
	1746-ASB	No Clock	
	1746-BAS BASIC Module Series A,B	2 Digit Date	
	1746-BTM/A	No Clock	
	1746-C9	No Clock	
	1746-FIO4I/A	No Clock	
	1746-FIO4V/A	No Clock	
	1746-HSCE	No Clock	
	1746-IA16	No Clock	
	1746-IA8	No Clock	
	1746-IA4	No Clock	
	1746-IB16	No Clock	
	1746-IB16/IV16	No Clock	
	1746-IB32	No Clock	
	1746-IB8/IV8	No Clock	
	1746-IG16	No Clock	
	1746-IM16	No Clock	
	1746-IM8	No Clock	
	1746-IM4	No Clock	
	1746-IN16	No Clock	
	1746-INT4/A	No Clock	
	1746-IO12	No Clock	
	1746-IO8	No Clock	
	1746-IO4	No Clock	
	1746-ITB16	No Clock	
	1746-IV16	No Clock	
	1746-IV32	No Clock	
	1746-IV8	No Clock	
	1746-N04V	No Clock	
	1746-N1041	No Clock	
	1746-NI04V	No Clock	
	1746-NI4	No Clock	
	1746-NI8	No Clock	
	1746-NO4I	No Clock	
	1746-NO4V	No Clock	
	1746-NR4	No Clock	
	1746-NT4	No Clock	

	1746-OA16	No Clock	
	1746-OA8	No Clock	
	1746-OB16	No Clock	
	1746-OB32	No Clock	
	1746-OB8/OV8	No Clock	
	1746-OBP	No Clock	
	1746-OBP16	No Clock	
	1746-OBP8	No Clock	
	1746-OG16	No Clock	
	1746-OV16	No Clock	
	1746-OV32	No Clock	
	1746-OV8	No Clock	
	1746-OW4	No Clock	
	1746-OW8	No Clock	
	1746-OW16	No Clock	
	1746-OX8	No Clock	
	1746-P1	No Clock	
	1746-P2	No Clock	
	1746-P3	No Clock	
	1746-P4	No Clock	
	1746-QS/A	No Clock	
	1746-QV/A	No Clock	
	1747-APB	No Clock	
	1747-ASB	No Clock	
	1747-BA	No Clock	
	1747-CP7	No Clock	
	1747-DCM	No Clock	
	1747-DTAM	No Clock	
	1747-DTAME	No Clock	
	1747-M1	No Clock	
	1747-M2	No Clock	
	1747-M11	No Clock	
	1747-M12	No Clock	
	1747-M15	No Clock	
	1747-MNET	No Clock	
	1747-P3	No Clock	
	1747-PBASE	No Clock	
	1747-PIC	No Clock	
	1747-SDN	No Clock	
	1747-SN	No Clock	
	1756-A4	No Clock	
	1756-A7	No Clock	
	1756-A13	No Clock	
	1756-A17	No Clock	
	1756-CNB, CNBR	No Clock	
	1756-DHRIO	No Clock	
	1756-ENET	No Clock	
	1756-IA8D	No Clock	

	1756-IA16, IA16I	No Clock	
	1756-IB16	No Clock	
	1756-IB16D	No Clock	
	1756-IF61	No Clock	
	1756-IF8	No Clock	
	1756-IF16	No Clock	
	1756-IR61	No Clock	
	1756-M1	No Clock	
	1756-MO2AE	No Clock	
	1756-OA8D	No Clock	
	1756-OA16, OA16I	No Clock	
	1756-OB16D	No Clock	
	1756-OF6CI	No Clock	
	1756-OW16I	No Clock	
	1756-PA72	No Clock	
	1756-PB72	No Clock	
	1770-CX1	No Clock	
	1770-FDC	No Clock	
	1770-FL	No Clock	
	1770-HT1	No Clock	
	1770-HT16	No Clock	
	1770-HT8	No Clock	
	1770-KB	No Clock	
	1770-KDA	No Clock	
	1770-KFC	No Clock	
	1770-KFCD15	No Clock	
	1770-LDA	No Clock	
	1770-M10, M11	No Clock	
	1770-P1	No Clock	
	1770-RD1, RD2	No Clock	
	1770-RG	Has Known Issues 2-Digit Date	See Allen-Bradley Issue #7
	1770-SA	No Clock	
	1770-SB	No Clock	
	1770-SC	No Clock	
	1770-T1, T2, T3	No Clock	
	1770-T11, T12	No Clock	
	1770-T12F	No Clock	
	1770-TA	No Clock	
	1770-TB	No Clock	
	1770-XO	No Clock	
	1770-XR	No Clock	
	1770-XT	No Clock	
	1770-XYB	No Clock	
	1770-XYC	No Clock	
	1770-XY	No Clock	
	1770-XZ	No Clock	

	1771-A3B1	No Clock	
	1771-A1B, A2B, A3B, A4B	No Clock	
	1771-A1, A2, A3, A4	No Clock	
	1771-AA	No Clock	
	1771-AB	No Clock	
	1771-AC	No Clock	
	1771-ACN	No Clock	
	1771-ACN15	No Clock	
	1771-ACNR	No Clock	
	1771-ACNR15	No Clock	
	1771-AD	No Clock	
	1771-AF	No Clock	
	1771-AF1	No Clock	
	1771-AL	No Clock	
	1771-ALX	No Clock	
	1771-AM1	No Clock	
	1771-AM2	No Clock	
	1771-AR	No Clock	
	1771-ARC	No Clock	
	1771-AS	No Clock	
	1771-ASB	No Clock	
	1771-ASC	No Clock	
	1771-CD	No Clock	
	1771-CE	No Clock	
	1771-CFM	No Clock	
	1771-CK	No Clock	
	1771-CP1	No Clock	
	1771-CP2	No Clock	
	1771-CP3	No Clock	
	1771-CT	No Clock	
	1771-CXT/A	No Clock	
	1771-D256	No Clock	
	1771-D810	No Clock	
	1771-DA ASCII module	No Clock	
	1771-DB Series A, B	2 Digit Date	
	1771-DB w/MOBY Firmware	2 Digit Date	
	1771-DBMBUS	2 Digit Date	
	1771-DBMEM	No Clock	
	1771-DC realtime clock	2 Digit Date	
	1771-DCM	No Clock	
	1771-DE	No Clock	
	1771-DFHD	No Clock	
	1771-DHD	No Clock	
	1771-DL	No Clock	
	1771-DMC,1,4 CO-PRO	Has Known Issues	See Allen-Bradley Issue #8
	RK-512	No Clock	
	1771-DR I/o logic	No Clock	

	1771-DS	No Clock	
	1771-DSX2,4 INFO-PRO	Has Known Issues	See Allen-Bradley Issue #9
	1771-DW	No Clock	
	1771-DXPS	No Clock	
	1771-E1, E2, E3, E4	No Clock	
	1771-E1C, E2C, E3C, E4C	No Clock	
	1771-ES	No Clock	
	1771-EY	No Clock	
	1771-HD	No Clock	
	1771-HM3A	No Clock	
	1771-HR	No Clock	
	1771-HRA	No Clock	
	1771-HS1	No Clock	
	1771-HS3A	No Clock	
	1771-HS3CR	No Clock	
	1771-HSN	No Clock	
	1771-HSAR	No Clock	
	1771-HSARS	No Clock	
	1771-IA	No Clock	
	1771-IA2	No Clock	
	1771-IAD, IADK	No Clock	
	1771-IAN	No Clock	
	1771-IB	No Clock	
	1771-IBD	No Clock	
	1771-IBDK	No Clock	
	1771-IBN	No Clock	
	1771-IC	No Clock	
	1771-ICD	No Clock	
	1771-ID	No Clock	
	1771-IDC	No Clock	
	1771-ID01	No Clock	
	1771-ID16, ID16K	No Clock	
	1771-IE	No Clock	
	1771-IEC	No Clock	
	1771-IE0, IE02, IE03, IE04, IE05, IE06, IE07	No Clock	
	1771-IF	No Clock	
	1771-IF01, IF02, IF03, IF04, IF05, IF06, IF07	No Clock	
	1771-IFC	No Clock	
	1771-IFCxx	No Clock	
	1771-IFE	No Clock	
	1771-IFF	No Clock	
	1771-IFM	No Clock	
	1771-IFMS	No Clock	
	1771-IG	No Clock	
	1771-IGC	No Clock	

	1771-IGD	No Clock	
	1771-IH	No Clock	
	1771-IJ	No Clock	
	1771-IK	No Clock	
	1771-ILA	No Clock	
	1771-IL	No Clock	
	1771-IM	No Clock	
	1771-IMD	No Clock	
	1771-IN	No Clock	
	1771-IND	No Clock	
	1771-IQ	No Clock	
	1771-IQ16	No Clock	
	1771-IR	No Clock	
	1771-IRC	No Clock	
	1771-IS	No Clock	
	1771-IT	No Clock	
	1771-IV	No Clock	
	1771-IVN	No Clock	
	1771-IX	No Clock	
	1771-IXC	No Clock	
	1771-IXE, IXEK	No Clock	
	1771-IXE/B	No Clock	
	1771-IXHR	No Clock	
	1771-IY	No Clock	
	1771-IYC	No Clock	

Year 2000 Status Definitions

Product Description	Catalog/Bulletin Number	Status	Notes
PROGRAMMABLE LOGIC CONTROLS (PLCs) - 2			
SoftLogix			
	1789-SL5	Ready	
ControlLogix			
	1756-L1 ControlLogix 5550	Ready	
	1756-GTWY	No Clock	
Open Controller			
	1747-OC	Ready	
Pyramid Integrator			
	5250-LP1, LP2 PLC5/250	Ready	
	5110-A4, A8, A4A	No Clock	
	5120-P1	No Clock	
	5130-KA	No Clock	
	5130-MRM1	Ready	
	5130-RM1, RM2	Ready	
	5150-MRS	No Clock	
	5150-RS	No Clock	
	5150-RS2	No Clock	
	5150-RS5	No Clock	
	5250-MLP1	No Clock	
	5250-MLP2	No Clock	
	5250-MLP3	No Clock	
	5250-MLP4	No Clock	
	5710-ID5	No Clock	
	5730-CPU1 MicroVAX	Has Known Issues	See Allen-Bradley Issue #3
	5730-CPU2 MicroVAX	Has Known Issues	See Allen-Bradley Issue #3
	5731-CPU2 MicroVAX	Has Known Issues	See Allen-Bradley Issue #3
	5730-DTLS	No Clock	Dependend on MicroVAX system. Be sure MicroVAX system is Ready.
	5730-OSS5	No Clock	Dependend on MicroVAX system. Be sure MicroVAX system is Ready.
	5730-OSSM	No Clock	Dependend on MicroVAX system. Be sure MicroVAX system is Ready.
	5810-AXMT	No Clock	
	5820-GW8	Ready	
	5820-EI	No Clock	
	5830-VS	No Clock	Dependend on MicroVAX system. Be sure MicroVAX system is Ready.
SLC's			

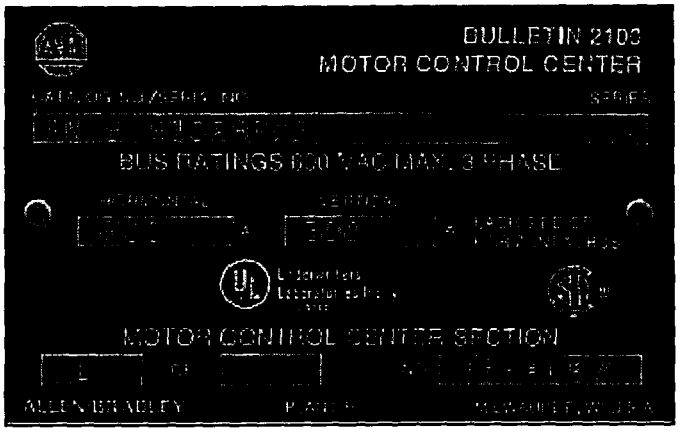
	1745-LP101 SLC 100	No Clock	
	1745-LP102 SLC 100	No Clock	
	1745-LP103 SLC 100	No Clock	
	1745-LP104 SLC 100	No Clock	
	1745-LP151 SLC 150	No Clock	
	1745-LP152 SLC 150	No Clock	
	1745-LP153 SLC 150	No Clock	
	1745-LP154 SLC 150	No Clock	
	1745-LP155 SLC 150	No Clock	
	1745-LP156 SLC 150	No Clock	
	1745-LP157 SLC 150	No Clock	
	1745-TCAT	No Clock	
	1747-L20 SLC500	No Clock	
	1747-L30 SLC500	No Clock	
	1747-L40 SLC500	No Clock	
	1747-L511 SLC 5/01	No Clock	
	1747-L514 SLC 5/01	No Clock	
	1747-L524 SLC 5/02	No Clock	
	1747-L531 SLC 5/03	Ready	
	1747-L532 SLC 5/03	Ready	
	1747-L541 SLC 5/04	Ready	
	1747-L542 SLC 5/04	Ready	
	1747-L542P ProSet 200	Ready	
	1747-L543 SLC 5/04	Ready	
	1747-L551 SLC 5/05	Ready	
	1747-L552 SLC 5/05	Ready	
	1747-L553 SLC 5/05	Ready	
	1747-Mxx	No Clock	
	1747-SN	No Clock	
	1747-PTA1E	No Clock	
	1747-PT1	No Clock	
	1747-NP1	No Clock	
	1747-AIC	No Clock	
	1745-C1	No Clock	
	1745-C2	No Clock	
	1745-C3	No Clock	
	1745-M1	No Clock	
	1745-PCC	No Clock	
	1745-PT1	No Clock	
	1745-E101	No Clock	
	1745-E103	No Clock	
	1745-E104	No Clock	
	1745-E105	No Clock	
	1745-E107	No Clock	
	1745-E151	No Clock	
	1745-E153	No Clock	
	1745-E154	No Clock	
	1745-E155	No Clock	

Allen-Bradley Known Issues

Issue/Note #	Product(s)	Issue/Note Description
Issue #1	1775-LP 1775-L1 1775-L2 1775-L3 1775-L4 1775-LPA	The PLC-3 will rollover and have an accurate leap year in power-up mode only. The PLC-3 clock function, during power down, will hold the time and date at its last value prior to power down (assuming the battery is capable of holding data). Upon re-application of power, the time and date will need to be re-set. The PLC-3 did not rollover or recognize leap year in power down mode prior to 1/1/2000 and will not after 1/1/2000. NOTE: The user program in the PLC-3 is completely backed by the battery.
Issue #2	1785-LT4 1785-LT3 1785-LT 1785-LT2 6008-LTV	The processors pass all the tests except leap year in powered down mode. The processor, if set to 2/28/2000 and powered down through the date change, will power up with 3/1/2000. If the power remains ON through the date change, the correct leap day is displayed. This is not unique to the Year 2000. Expanded tests shows the same results for 1988, 1992, and 1996. The important thing to remember is that this does not stop the processor from running unless the application code relies on the date for execution. There will be no fix for these processors.
Issue #3	5730-CPU1 5730-CPU2 5731-CPU2	The DEC MicroVAX is Year 2000 Ready, but you must have a Ready version of Open VMS. The versions of Open VMS that are Year 2000 Ready are 5.5-2, 6.2 or 7.1. If you do not have one of these versions, there are enhancement kits available to update your system from Digital. For information, please see their web site at **www.digital.com**
Issue #4	Industrial Terminals & Computers (refer to table)	This product will not roll over to the Year 2000 on its own. After 12/31/99 the date must be manually set on the computer. Once this is done, the computer will continue to recognize the proper date. **To manually set the date:** Turn on the computer. During the boot up process a notification for entering setup will appear. For example, "To enter setup press (F1)." On the T70/T60 workstations the notification will read, "press (ctrl, alt, esc) to enter setup." Enter setup during boot according to your computers directions. Once in setup, select the time and date option. Simply enter the new date and save the new settings.
Note #5A	Standard PanelView Hardware (refer to table)	***If you are doing date comparisons:*** PanelView date transfers to or from a controller may use a 2-digit year format. Internally, most controllers use a 4-digit year format. Considering this, user controller ladder logic should be examined to be sure date comparisons are performed correctly. **Please see the document Y2k.rss below:**  Y2k.pdf
Note #5B	Enhanced PanelView Hardware (refer to table)	***If you are doing date comparisons:*** PanelView date transfers to or from a controller may use a 2-digit year format. Internally, most controllers use a 4-digit year format. Considering this, user controller ladder logic should be examined to be sure date comparisons are performed correctly. **Please see the document Y2ke.rss below:**  Y2ke.pdf
Note #6	PanelBuilder Software (refer to table)	PanelBuilder software does not utilize the time or date in the software. The time and date stamping is done by the operating system. The PanelBuilder files save this information and display it in the format dictated by the operating system. Therefore PanelBuilder has no control when it comes to file saving and the year 2000.
Issue #7	1770-RG	The 1770-RG will rollover and have an accurate leap year in power-up mode only. The 1770-RG does not have battery backup which holds the time and date. When a power cycle occurs, the time and date are lost and need to be re-entered. The 1770-RG did not rollover or recognize leap year in power down mode prior to 1/1/2000 and will not after 1/1/2000.

Issue #8	1771-DMC	The 1771-DMC, 1, 4 does not roll over to the Year 2000. You must order new firmware. **To Order the Firmware upgrade, follow these steps:** 1. Call 440-646-6800 (this is an automated answering system) 2. Remain on the line for assistance. 3. Request to order a set of firmware, number **1771-DMCU** **-OR-** Send an e-mail to: **racleasktheexpert@ra.rockwell.com** You MUST include ALL of the following information: - Your Name - Company Name - Full mailing address (NO P.O. Box's) - The firmware upgrade you are requesting: **1771-DMCU** *****This firmware upgrade is free**
Issue #9	1771-DSX	If 1771-DSX2, 4 is in power down mode on or after 12/31/99, when it is powered up, the date will not have properly rolled over from 12/31/99 to 1/1/2000. Upon powering up, the unit must be manually set to the current date. Once the date has been manually set after 1/1/2000, it will thereafter continue to recognize the proper date, including leap year dates. If the 1771-DSX2, 4 is in power up mode on 12/31/99, it will properly roll over to 1/1/2000. However, the first time power is lost after 1/1/2000, the unit will lose the date. Therefore, upon powering up, the unit must be manually set to the current date. Once the date has been manually set after 1/1/2000, it will thereafter continue to recognize the proper date including leap year dates.
Issue #11	1336T Force	The 1336 Force does not recognize leap year. You must use drive tools to reset the date. The 1336 Force did not recognize leap year prior to 1/1/2000 and will not after 1/1/2000. The date function in the 1336 Force is only a 2 digit format.
Issue #12	1395 1396	The 1395/1396 will rollover and have an accurate leap year in power-up mode only. The 1395/1396 does not have battery backup which holds the time and date. When a power cycle occurs, the time and date are lost and need to be re-entered. The 1395/1396 did not rollover or recognize leap year in power down mode prior to 1/1/2000 and will not after 1/1/2000.
Note #13	Medium Voltage	Medium Voltage products are often customer engineered and have many components installed to meet specific customer/application needs. All MV products should be reviewed for components which may have a real time clock. Any such items should be investigated for Year 2000 Readiness. This can be done by contacting the component manufacturer or Rockwell Automation Medium Voltage Product Support personnel at (519) 740-4100.
Issue #14	1785-O5E 1785-O5G	Map Manager software can only be run on 286/386 computers. Since the 286/386 computers are not Year 2000 Ready, this product will not be Year 2000 Ready.
Issue #15	6500-PS7TS/A	Install Patch Disk: For the ProSet 700 Patch files and instructions, please see our website at **www.ragts.com/y2k** and follow these steps: 1. Click "Downloads" 2. Click ProSet 700 Patch 3. Register with the appropriate information and "submit" 4. Follow the instructions given.
Issue #16	6500-PS600	Year 2000 Rollover Fix: For the ProSet 600 Year 2000 Rollover fix instructions, please see our web site at **www.ragts.com/y2k** and follow these steps: 1. Click "Downloads" 2. Click "ProSet 600 Rollover Fix" 3. Register with the appropriate information and "submit 4. Follow the instructions given. NOTE: 6500-PS600 is a system composed of 2711-Kxxx, 1785-Lxxx and the ProSet 600 software. You must verify all pieces of this system for Year 2000 Readiness.
Issue #17	2755-DH5	The 2755-DH5 terminals hardware works correctly, but since it is programmed in

		BASIC, there is a problem. The Real-Time Clock in the LINX terminals support a date up to the year 2084. This can be verified by terminating any program which is running in the terminal, enter the System Menu (#3) and entering a date such as 000101 (January 1, 2000). Then exit the menus and press the #3 key, you should see SAT JAN 1, 2000. However, when a LinxBASIC program performs the following statement: d$ = Date$ d$ will equal "000101", on Jan 1, 2000 Therefore a LinxBASIC program which does not check to see if the year is less than 98 will run into problems if it uses the year for any calculations. For instance, if you were born in 1960, and if a LinxBASIC program does not correctly check the year, then you would be 60 year old in the year 2000, which is not correct. All LinxBASIC programs which uses the year for any type of calculation should be created as follows: d$ = Date$ yr = Val (Left$ (d$, 2)) If yr < 98 Then yr = yr + 2000 Else yr = yr + 1900 This algorithm then correctly determines the year. So the internal clock does support year past 2000, but LinxBASIC only returns a two digit year.
Issue #18	2706-Bxxx	The DL20 has the prefix "19" hard coded for the print command. The internal clock only has 2 digits which is then attached to the hard coded "19". For example, in the year 2001, the DL20 will see the date as "01". However, when the date is printed of the printer port only, the date will read 1901. This is only seen from the printer port to a printer. All other uses of the clock will show month/day/year where the year will be shown as "01".
Issue #19	3100-DRC	Year is always handled with two digits. When the date is set by SETDAT, the date skips the leap day (not when set by CLI). The date can be set 00-02-29 by SETDAT or CLI on the leap day.
Issue #20	3100-DGC	Year is always handled with two digits. In the year 2000, the date skips over the leap day 29.2.2000; it cannot even be set from the keyboard. In other leap years, the leap day is29.2.2000; it cannot even be set from the keyboard. In other leap years, the leap day is handled properly.
Issue #21	3251-DMS2 3251-DMS3	The program displays the date in 2 digit format only. Printouts will only show a 2 digit year.
Issue #22	System Access Manager (SAM)	If using the ICOM Graphic Logistics package, certain graphics pages can not be compiled while running under VDOS. Pages compiled successfully under DOS.
Note #23	2100-xxxxx	CENTERLINE Motor Control Centers are custom build for each customer. To determine Year 2000 Readiness of one of these products, the customer must provide us with the Catalog No./Serial No. listed on the product. Please see the diagram below to locate where this information is on each machine. Once this information has been obtained, please call 414-382-2000 and ask for the Year 2000 Help Desk. **Nameplate Data** Each vertical section has a nameplate located on the vertical wireway door. On special width sections, the nameplate is located on the section door. See Figure 1.1. Information on nameplates include: - catalog number / serial number - series letter of the section - maximum bus bar voltage and current rating - section location number - Section Nameplate **Section Nameplate**

		 *** The Catalog No./Serial No. for this plate would be: 2100-SN B 810287/5
Note #24	1756-PLXC	ProcessLogix Release 200 (R200) will contain Windows NT 4.0 service pack 4. Service pack 4 fixes Microsoft bugs related to Year 2000 in the Internet Explorer and Networking areas. Rockwell Automation will be shipping ProcessLogix Release 200 in May 1999. Rockwell Automation has a migration plan for upgrading existing customers to ProcessLogix Release 200.
Issue #25	2711E-ND1 2711E-ND7	The following are known issues with the PanelView e File Transfer Utility 32 version 4.x and versions 5.00 to 5.12. These issues will be fixed in a software update to be released in August 1999. 1) If the application to be downloaded has a date stamp on or after 1/1/2000, the "Download if newer" option in File Transfer Options dialog (activated by clicking on "Options" button on the toolbar or the "Download Options..." button) of the PanelView e Transfer Utility 32 does not function properly. The PanelView e Transfer Utility 32 will download the file, even if the file being downloaded is not newer than the PanelView terminal file. 2) In the PanelView e File Transfer Utility 32, the "Date Modified" field provided by the "Get Transfer Parameters From PV File" option in the "Parameters" menu will be incorrect for PVD files with dates of 1/1/2000 or later.
Issue #26	2711E-ND1	In PanelBuilder 1400e Version 5.12 and earlier, dates on or after 1/1/2000 in printed reports will be formatted incorrectly with a leading "1" in the year field. For example, January 1, 2001 would print as "1/1/101" instead of "1/1/01". This issue will be fixed in a software update to be released in August 1999.
Issue #27	2711-KA1 2711-KC1 2711-TA1 2711-TA4 2711-TC1 2711-TC4	If the terminal date of a PanelView 1200 has been set (via the terminal config screen or by the PLC) to a date on or after 1/1/2000, the day-of-the-week word sent to the controller when using the "Time and Date to PLC Controller" option will be incorrect. If the terminal rolls over from 12/31/1999 to 1/1/2000 on its own, the day-of-the-week value will remain correct. Only after a manual date change on or after 1/1/2000 will this error occur. This issue will be corrected in a firmware update to be released in August 1999.
Note #28	1403-MMxxx 1403-LMxxx	**To Order the Firmware upgrade, follow these steps:** 1. Call 440-646-6800 (this is an automated answering system) 2. Remain on the line for assistance. 3. Request to order the firmware upgrade for Powermonitor II. **You will need to have the catalog number and series/revision of the product you are currently using when you call.
Note #29	8600 AT90	These products are no longer manufactured by Rockwell Automation, they are now a

	8600 IWS 8601 AT MC 8601 GP AT 10/Series	product of OSAI. Please refer to **www.osai.co.uk/y2k/products.htm** for information on the specific Y2K issues. All Year 2000 information and product upgrades are the responsibility of OSAI. However, if your company is located in the U.S. or Canada, OSAI has contracted with Rockwell Automation to provide upgrade services to customers in the U.S. or Canada. **Customers in the U.S. or Canada:** Please fill out **CNC Request Form.dot** attached below. When completed, please send the document to Brian Duchossois either in an e-mail to ***bkduchossois@ra.rockwell.com*** or via fax at 440-646-5568. CNC Request Form.dot **Customers outside of the U.S. and Canada:** Please contact OSAI directly: *Contact Name* - Francesco Montanarella *Contact Phone* - 39.011.9899726 *Contact Fax* - 39.011.9899725 *Contact E-mail* - **montanarellaf@osai.it**
Issue #30	2711E-K10xx 2711E-T10xx 2711-Kxx 2711-Txx 2711E-K12xx 2711E-T12xx 2711E-K14xx 2711E-T14xx	The trend object displays February 29, 2000 as March 1, 2000. The dates are displayed as follows: (depending on 4-digit or 2-digit date format selected in terminal configuration) Day 1: 2/28/2000 or 2/28/00 Day 2: 3/1/2000 or 3/1/00 Day 3: 3/1/2000 or 3/1/00 Day 4: 3/2/2000 or 3/2/00 All dates are correct except February 29, 2000 is displayed as March 1, 2000 - this is a display issue only. The trend data is still presented in the proper order and subsequent dates (including leap years) are displayed correctly. This issue will be corrected in a firmware update to be released in August.

Year 2000 Status Definitions

Ready:
The specified series and versions of the listed product are Year 2000 Ready. "Year 2000 Ready" means:

1. The product will provide valid and correct results with reference to the input, processing, and output of the date data which references a given century provided that 1) interfacing hardware, firmware and software will properly exchange date information with the Rockwell Automation product, 2) interfacing hardware, firmware and software will not impact or otherwise impede the performance of the Rockwell Automation product and 3) In all interfaces and data storage, the century in any date will be specified either explicitly or by unambiguous algorithms or inferencing rules.
2. No valid value for current date will cause any interruption in operation.
3. Date-based functionality will behave consistently for dates prior to, during and after Year 2000.
4. Year 2000 will be recognized as a leap year.

The Year 2000 Status Definition "Ready" above applies only to the individual Rockwell Automation product listed and only to the specific version, series or release specified, provided that the product is used properly in accordance with industry practices and product information provided by Rockwell Automation. It does not apply to individual components within the product should they be used independently of the product or to the larger system of which the product may form a part.

Not Ready:
The product does not adhere to one or more of the "Ready" criteria. The problem cannot be remedied.

Has Known Issues:
The product does not adhere to one or more of the "Ready" criteria. The problem cannot be remedied, however, the nature of the issue(s) is such that the product may or may not be adequate for use after December 31, 1999 depending upon your specific application and functional requirements.

2 Digit Date:
The product has a two digit date (ex: 99 for 1999) and does not recognize a century. The product will rollover from 99 to 00. It will recognize leap year based on the assumption that every 4th year is a leap year. The Year 2000 is recognized as a leap year. The product may or may not be adequate for use after December 31, 1999 depending upon your specific application and functional requirements.

Display Only:
The product has been tested at the revision level indicated. The product displays date information to the user for visual purposes only. This date information is not actively used in the product other than for display purposes. The product may or may not be adequate for use after December 31, 1999 depending upon your specific application and functional requirements.

No Clock:
The product does not contain a real-time clock (RTC). Therefore, the product does not have any date-specific functionality and is not affected by changes in dates.

Obsolete/Not Tested:
These products are no longer manufactured and cannot be ordered from Rockwell Automation. They have not and will not be tested for Year 2000 readiness and are not considered Year 2000 Ready.

Evaluation:
Products with an "Evaluation" status are either currently being tested for any Year 2000 implications or being evaluated to determine the need for future testing. Information will be available as the evaluations proceed.

Please note that checking the Year 2000 status of each of your Rockwell Automation products does not ensure that the equipment or systems into which the Rockwell Automation products are incorporated are Year 2000 ready, even if all elements of the equipment or systems are defined by their vendors as Year 2000 "compliant" or "ready". Depending upon your application, even Rockwell Automation products individually assigned Year 2000 Status Definitions "Ready" may not necessarily work together to read, exchange and use date information. You must check the interaction of all hardware and software components of your equipment and systems to confirm the interoperability of the methods for exchanging and using dates. DO NOT WAIT. Check the Year 2000 performance of your equipment or system as soon as possible.

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U.S.FILTER

U.S. FILTER/JWI
2155 112TH AVENUE
HOLLAND, MI 49424
USA
TELEPHONE 616-772-9011
FACSIMILE 616-772-4516

July 21, 1999

Scott Sherman
Montgomery Watson
2100 corporate Drive
Addison, IL 60101

Dear Scott:
US Filter is committed to offering our customers a high level of assistance to handle potential Year 2000 compliance issues associated with equipment we have supplied. To this end we have reviewed our product files and compiled a list of US Filter – JWI products and their Y2K compliance status. At this time we have found no US Filter – JWI products that are non-compliant.

Your US Filter – JWI Filter Product S/N F05905

Products	Description	Y2K Status
Carbolux	Carbonate Crystallization System	Compliant (No RTC)
Electrolyzer	Electrolytic Recovery System	Compliant (No RTC)
J-Mate	Continuous and Batch Sludge Dryers	Compliant (No RTC)
J-Press	Side-bar and Overhead Filter Presses	Compliant
J-Vap	Dewatering and Drying System	Compliant

Compliant (No RTC) - Has no real time clock.
Compliant - Has real time clock. Handles leap year in 2000. If 4-digit year then 1999 rolls-over to 2000. If 2-digit year then 99 rolls-over to 00 and the year is not used for calculations.

All compliance claims are based on the information we have received from our suppliers and the state of the equipment, to the best of our knowledge, as it was shipped by US Filter – JWI Products. For more detailed compliance information please visit that component manufacturer's web site. It should be noted that if your system has had software or hardware additions/modifications, made by either yourself or others, they could effect the Y2K compliance of your system.

Information provided you either in writing or verbally regarding products and services offered by U.S. Filter Corporation or with respect to our Year 2000 processing capabilities or readiness are "Year 2000 Readiness Disclosures" in conformance with the Year 2000 Information and Readiness Disclosure Act of 1998 (Public Law 105-271, 112 Stat. 2386) enacted on October 19,1998. This designation applies to information delivered directly to you, through or derived from the Company's past or present Year 2000 disclosures.

Please contact Barb Schueler or me at (616) 772-9011 if you have any further questions or concerns on this subject.

Sincerely,

Eric Poindexter
Y2K External Coordinator

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Scott

The Rayox equipment project number 533 will be unaffected by the year 2000 century change.
The components used in this equipment: Uniop display, Koyo PLC, Endress-Hauser flowmeter, Prominent metering pumps and Signet pH meters are all year 2000 compliant.
The PLC logic does not use any century date comparisons.

UV/Ox PLC

Best Regards

Michael Madigan
Manager Product Engineering

130 Royal Crest Court
Markham, Ontario
Canada L3R 0A1
Telephone (905) 477-9242
Facsimile (905) 477-4511

CALGON

CALGON CARBON CORPORATION

FACSIMILE NO. : 1-630-691-5733
NO. OF PAGES : 4
DATE : July 16/99
TO : SCOTT SHERMAN, MONTGOMERY WATSO
FROM : MIKE MADIGAN.

ATTACHED IS LETTER RE YEAR 2000 COMPLIANCE. PLEASE CALL IF YOU HAVE ANY QUESTIONS.

CALGON

CALGON CARBON CORPORATION

Year 2000 Compliance

Calgon Carbon Corporation is very much aware of the problems that will occur in many companies if their computer systems are not capable of dealing with the roll-over from the year 1999 to the year 2000.

A task force was established in 1997 to identify all potential areas of material risk and to make required modifications as they relate to business computer systems, technical infrastructure, end user computing, suppliers, customers and manufacturing systems.

All key suppliers of material, services and equipment have been surveyed regarding their Year 2000 compliance and their responses are being analyzed. Sixty percent of the surveys have been returned and of those, 89% indicate that they are now compliant.

Further, all purchase orders for new software and/or hardware include a statement, that by acceptance of the purchase order, the vendor is certifying compliance.

Business contingency plans are being developed for all locations to mitigate risks associated with potential loss of utilities, wide-area networks, etc. These plans will be finalized by the third quarter of 1999.

Information Technology

To ensure Year 2000 compliance, the Company is engaged in a program to modernize and replace its computerized production control and management information systems with SAP. SAP is an enterprise wide business system that was installed to replace the previous legacy system. Although Year 2000 compliance is not the primary purpose of the program, the new system is scheduled to be in place, in the U.S. and Europe, by the second quarter of 1999 and is expected to be Year 2000 ready. The installation of SAP at all locations was completed as of April 1, 1999, and the system is currently performing as expected. Final testing of SAP's Year 2000 compliance is scheduled to occur before May 31, 1999.

Included in the above activity is the replacement of the existing human resource system. This task is expected to be completed during the second quarter of 1999. No known supplier issues are involved.

Year 2000 compliance audit of the Company's personal computers and related software is complete. Results indicate that approximately 83% are compliant. The majority of the non-compliant personal computers are scheduled to come off lease in 1999 and will therefore be replaced via the Company's existing lease program. The remainder will be remediated by June 30, 1999.

Additional costs for Year 2000 compliance are not expected to be material to the operating results.

Major milestones include:

1. Replacement of the existing Carbon Business "Legacy" financial systems with Y2000 compliant software and computer hardware (SAP software, Hewlett Packard computers, and an HP-UX (Unix) operating system).	Completed October 1, 1998
2. Replacement of existing Carbon Business "Legacy" manufacturing/inventory systems with SAP software and Hewlett Packard computers (as stated above).	Completed October 1, 1998

3. Replace the existing Equipment Businesses (AST & AOT) "Legacy" financial, inventory, and manufacturing systems with the SAP and Hewlett Packard computers (as stated above).	Completed April 1, 1999
4. Replace the company's non-compliant Human Resources system with a Y2000 compliant system based on Lotus Notes software, running on a Compaq server, with a Windows NT operating system.	May 1, 1999
5. Finalize the identification of Y2000 problems associated with networks and Personal Computer based systems.	Completed March 31, 1999
6. Resolve (fix or replace) any Y2000 issues associated with networks, Personal Computers, and associated software..	June 30, 1999
7. Re-test all of the above and ensure that all aspects are Y2000 compliant, and develop/implement any contingency plans that may be applicable.	June 30, 1999

Non-Information Technology

The Company has established a task team to identify and resolve the millennium date rollover issues in its manufacturing processes worldwide. This focus is on process related technology and other devices with embedded microprocessors which are used to control the manufacturing processes or operate security, communication or building services. The initial phase of planning and awareness was completed in early 1998. The inventory phase was completed during the second quarter of 1998 for both the domestic and European manufacturing facilities. The compliance status of all devices has been determined. Approximately 95% of all devices are compliant. Detailed definition and implementation of solutions is currently under way and will be completed by June 30, 1999. Necessary corrective actions have been determined for all of the non-complying devices.

As projected, the first quarter of 1999 saw substantial progress on detailed definition and solution of Year 2000 problems in the domestic and European manufacturing facilities. The accuracy of the initial compliance assessment was borne out in full scale tests at the Pearl River, Mississippi plant and in two of the reactivation facilities at Feluy, Belgium. The "B" line at the Big Sandy, Kentucky plant will be similarly tested during the second quarter of 1999, and the remaining lines in subsequent months. Based on the similarity of Big Sandy equipment to that at Pearl River, no significant problems are foreseen in the Big Sandy tests. Testing is scheduled to begin at Neville Island, Pennsylvania in May, 1999.

The Grays and Carbon Cloth production facilities in the United Kingdom have been determined to be Year 2000 compliant. Costs for hardware/software for these plants were below the budgeted values. Upgrades to control software at the Bodenfelde, Germany plant are underway with costs projecting slightly above budget. Overall, costs for bringing the European manufacturing operations into compliance will be below budget.

The costs to address the Company's Year 2000 issues in manufacturing have been estimated in the range of $0.5 million to $0.8 million. Costs through March 31, 1999 total about $0.4 million. Based on expenditures to date and full scale test results, it appears that the total cost will be within the estimated range. These expense items include third party consultant fees and costs to upgrade or replace non-compliant devices. None of the components of the estimate were contemplated for reasons other than Year 2000 readiness.

The task team is making efforts to ensure that all devices will be Year 2000 ready, however, since the assessment process is still under way, it is not possible to guarantee the results at this point. It is expected that all manufacturing operations will be ready and operable. However, if a significant uncertainty arises at any time, a plan will be developed in the third quarter of 1999 to focus efforts on those devices critical to operation of the production process(es). Devices that are informational only or non-critical to operation will then be deferred until the operability of the process(es) is ensured.

The Company anticipates that the most likely worst case Year 2000 scenario, if one were to occur, would be the inability of third party suppliers such as utility providers, telecommunication companies and other critical suppliers to continue providing their products and services. This possible scenario could pose the most significant threat to the operation of the Company's facilities along with

associated environmental and potential financial consequences. If this would occur, new suppliers would be contacted immediately.

All questions related to this Year 2000 issues should be directed to Paul B. Dunlevy, Director of Information Systems., P.O. Box 717, Pittsburgh, PA 15230.

Revised 5/18/99.

Paul B Dunlevy

Posted 04/05/99 04:24 PM
Expires 12/31/99

Applicable Locations
Calgon Carbon(All Locations)

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GE Industrial Systems

Kevin Keefe
Year 2000 Communications Leader

41 Woodford Ave
Plainville, CT 06062
860-747-7713
860-747-7830 (Fax)

7/12/99

Scott Sherman
Montgomery Watson
2100 Corporate Dr.
Addison,IL 60101, USA

Dear Mr. Sherman.

GE Industrial Systems is engaged in a multi-year effort to identify and address year 2000 date-related situations in a broad range of areas including internal business applications, process enabling systems, facilities, and products. A year 2000 program leader has been named, a cross functional team has been assembled, and Industrial Systems is working to address year 2000 date related issues.

In the area of products, all new products have been designed to meet the requirements of year 2000 date-related situations and all legacy products have been through an extensive year 2000 date-related evaluation.

We have identified the products listed in your inquiry which do not use date-related data (see listed products below). We know of no reason to believe that these devices will experience year 2000 date-related performance issues.

Product Name	Issue	Solution
AF300E$ Drive Family	N/A	N/A

Thank you for your interest in GE Industrial Systems products and services.

Very truly yours,

Kevin Keefe
Year 2000 Customer Communications Manager

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RadioShack Cat. No. 490-0434

Security Automatic Message Dialer

Based on our review of the Product, we believe that you should have no problem with the operation of this product. You should be able to continue to use the Product without being concerned that the change to the Year 2000 will affect it.

For more information, go to Year 2000 Readiness - Consumer Electronic Products

BACK to RadioShack Year 2000 Product Information

Tandy/RadioShack does not state that this product is "Year 2000 compliant" or that it is not. We simply have no information that would lead us to believe that this product deals with date data in any respect.

This page is a statement of opinion based on information reasonably available at the time of this correspondence and is subject to change without notice. Statements that we make may be based on our experience, knowledge, research, testing or statements from third party suppliers, or some combination of these. We believe that this information is accurate, but we cannot provide warranties, guarantees or other assurances that it is complete or without error. We reserve the right to revise or withdraw this statement at any time.

The information provided here constitutes a Year 2000 Readiness Disclosure for purposes of the Year 2000 Information and Readiness Disclosure Act.

Send comments or suggestions to RadioShack

BACK to Year 2000 Consumer Products

Consumer Product Testing Procedures

Preparation

To test your product for Year 2000 readiness, you will need to know how to reset its clock/calendar function. If you do not already know how to do this, you should refer to the product's operations manual. If you are unable to locate the manual, you should contact the product's manufacturer.

For most RadioShack products, the information is available at the RadioShack Product Support site.

Test #1 - Year 2000 Rollover

The purpose of this test is to reset the product's internal clock/calendar to the final minutes of the year 1999 and to observe the product after its clock/calendar has rolled over into the Year 2000.

Choose a date and time that will allow you to complete all reset functions before the rollover occurs. For example, reset the internal clock/calendar to 11:55 PM 12/31/1999. Observe the product as the time and date changes at 12:00 AM to see if the product displays the appropriate time and date (1/1/2000).

If either time or date is wrong, jump to Oops...I've got a Year 2000 problem, otherwise, continue with the next test.

Test #2 - Year 2000 Leap Year Recognition

The purpose of this test is to determine if your product's clock/calendar will recognize that the Year 2000 is a leap year, which only occurs when the year is evenly divisible by 4, except during century years not evenly divisible by 400. 2000 IS a leap year. Only leap years have a February 29.

Reset the internal clock/calendar to 11:55 PM, 2/28/2000. Observe the products as it changes to 12:00AM to verify that the date correctly changes to 2/29/2000.

If you product failed this test, but passed Test #1, then you will have to remember at the end of February to reset your product's clock/calendar to allow for the leap year.

Now, if your product is one of those where you can program it today to do something in the future, then continue on with Test #3.

Test #3 - Spanning the Century Change

The purpose of this test is to determine if your product can be programmed in this century to accurately perform an operation in the Year 2000.

For purposes of this example, we will assume the product is a VCR. Reset the VCR's internal clock/calendar to 11:55 PM, 12/31/1999. Next, program the VCR to record a TV broadcast at 12:05 AM on 1/1/2000.

In ten minutes, the VCR should have turned itself on and started recording the chosen channel.

If it passes this test, you may want to try one more test. Reset the VCR's internal clock/calendar to 11:45 PM, 12/31/1999. Then program the VCR to record a TV broadcast at 11:55 PM, 12/31/1999. Program a program stop time of 12:05 AM, 1/1/2000. If this works, you can go to bed early on New Years Eve night and let

vour VCR record the "birth of the new millennium" craziness.

Next: Oops...I've got a Year 2000 problem!

BACK to Year 2000 Consumer Products

Coltec Industries

Quincy Compressor Division

3501 Wismann Lane
P.O. Box C2
Quincy, Illinois 62305-3116
217/222-7700

28

07/15/99

TELEFAX COVER SHEET

TO: Scott Sherman
COMPANY: **Montgomery Watson**
FAX #: **(630) 691-5133**

FROM: Joni Garner
OUR FAX NUMBER: 217-222-8709 (Accounting Department)
TOTAL NUMBER OF PAGES INCLUDING THIS PAGE: 2

Coltec Industries

Quincy
Compressor Division
Ortman Fluid Power
3501 Wismann Lane
P.O. Box C2
Quincy, Illinois 62305-3116
217/222-7700

Montgomery Watson
Scott Sherman
Y2K Compliance
2100 Corporate Drive
Addison, Il 60101

Coltec Industries Inc Year 2000
Readiness Program Status Report

We have received your inquiry regarding our company's Year 2000 readiness efforts. Coltec and its divisions have focused significant efforts toward addressing the potential problems that could arise as a result of the Year 2000 changeover. In order to address all issues in a timely manner, we have completed a comprehensive Year 2000 evaluation of all internal and external systems and contacts. We have Year 2000 project teams in place at the corporate and divisional levels that have reviewed and tested our programs, hardware, and procedures. Additionally, we are undertaking a comprehensive survey of supplier and customer readiness efforts. It is Coltec's intention to resolve all issues that arise such that we will not suffer any material disruption of operations as a result of the millennium changeover.

Coltec and its divisions have completed or are in the process of completing, the replacement or upgrade of their internal computer systems to comply with Year 2000 processing requirements. Additionally, all new microchip-based equipment acquired by Coltec or its divisions will comply with Year 2000 processing requirements. Corrective actions have been or will be implemented in our existing programs and microchip-based equipment with date sensitive functions. Additionally, we have thoroughly reviewed our products and have confirmed that there are no Year 2000 processing issues. In short, Coltec and its divisions have committed the resources and taken the steps necessary to assess potential problems and to implement cost effective solution.

Based upon the number and the variety of Year 2000 readiness surveys we have been receiving from our customers and vendors, we are providing this response in lieu of answering individual surveys. Further, we are still receiving responses to our customers and supplier surveys, but are well along in the process. Coltec and its divisions intend to work with all of our customers to ensure that we continue to provide the high level of service and reliability that you have come to expect from us.

It is important to both of our companies that we achieve Year 2000 readiness. We are focusing substantial efforts on this project and expect to address all issues identified. If you require additional information regarding a specific issue please contact:

Robert Cerrano
Vice President of Finance
Quincy Compressor Division
Coltec Industries, Inc.

Coltec Industries

Quincy
Compressor Division
Ortman Fluid Power
3501 Wismann Lane
P.O. Box C2
Quincy, Illinois 62305-3116
217/222-7700

Montgomery Watson
Scott Sherman
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2100 Corporate Drive
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Robert Cerrano
Vice President of Finance
Quincy Compressor Division
Coltec Industries, Inc.

A&D Product information

Search results

Text to find: LOGO

Product	Order No.	Date Format	Withdrawn	Year 2000 Compliance	Date HW/SW	Date Limit	Comment
LOGO! Manual, rel. 3	6ED10501AA000			Not applicable			No date or time function
LOGO! 12RC	6ED10521BB000BA0			Not applicable	HW		no date function
LOGO! 12RC	6ED10521BB000BA1	MMDDYY		Yes	HW	2099	
LOGO! 24	6ED10521CA000BA0			Not applicable	HW		no date and time function
LOGO! 24	6ED10521CA000BA1	MMDDYY		Yes	HW	2099	
LOGO! 230R	6ED10521FA000BA0			Not applicable	HW		no date and time function
LOGO! 230R-TWIN SET, 2X LOGO! 230R,LOGIKMODUL,DISPLAY	6ED10521FA020BA0			Not applicable			No date or time function
LOGO! 230RC	6ED10521FB000BA0			Not applicable	HW		no date function
LOGO! 230RC	6ED10521FB000BA1	MMDDYY		Yes	HW	2099	
LOGO! 24R	6ED10521HA000BA0			Not applicable	HW		no date and time function

Displayed records: 1 to 10 of 49 [redacted]

Last update: 14.JUL.1999

webmaster

A&D Product information

Search results

Text to find: LOGO

Product	Order No.	Date Format	Withdrawn	Year 2000 Compliance	Date HW/SW	Date Limit	Comment
LOGO! 24RC	6ED10521HB000BA0			Not applicable	HW		no date function
LOGO! 24RC	6ED10521HB000BA1	MMDDYY		Yes	HW	2099	
LOGO!12RCL, LOGIKMODUL, DISPLAY	6ED10531BB000BA1	MMDDYY		Yes	HW	2099	
LOGO! 24L	6ED10531CA000BA0			Not applicable	HW		no date and time function
LOGO! 24L, LOGIKMODUL, DISPLAY	6ED10531CA000BA1			Not applicable			No date or time function
LOGO! 24LB11	6ED10531CG000BA0			Not applicable	HW		no date and time function
LOGO! 230RL	6ED10531FA000BA0			Not applicable	HW		no date and time function
LOGO! 230RCL	6ED10531FB000BA0			Not applicable	HW		no date function
LOGO! 230RCL,LOGIKMODUL,DISPLAY	6ED10531FB000BA1	MMDDYY		Yes	HW	2099	
LOGO! 230RLB11	6ED10531FG000BA0			Not applicable	HW		no date and time function

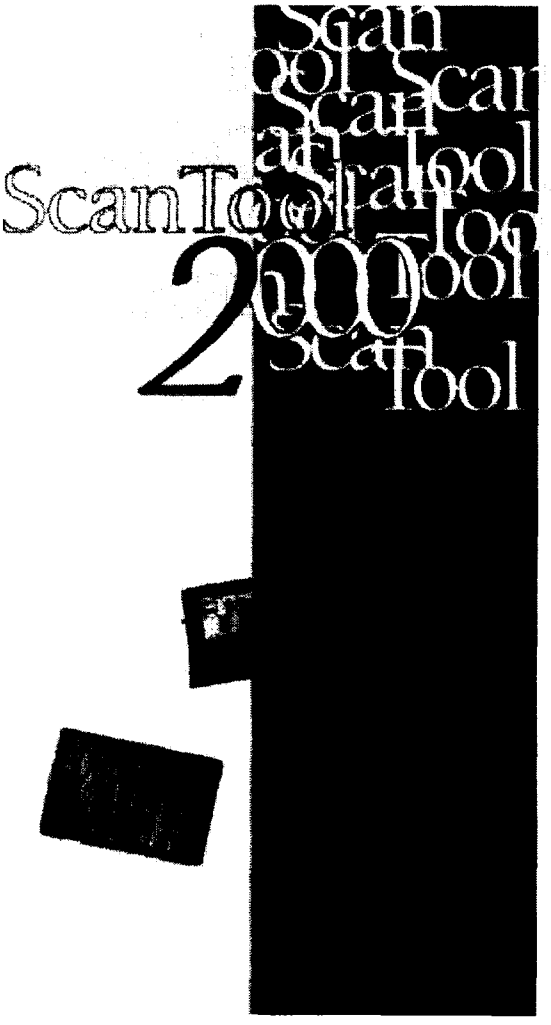
Displayed records: 11 to 20 of 49

Last update: 14.JUL.1999

webmaster

Looking the Year 2000 straight in the eye

ScanTool 2000 gets to grips with the millennium date change



Before incorrect date values throw your individually configured user programs into a turmoil, you should implement ScanTool 2000.
This powerful tool for the SIMATIC STEP5 and STEP7 industry software quickly and accurately traces date-processing sequences in your user programs. For you and your systems this means security you can rely on. The automatic search procedures also save time and money. Search results are presented in a clearly laid out protocol file that you can then take for checking and correcting the date-processing sequences.

Use your SIMATIC CARD to download the software quickly and simply from the Internet.

Or just get in touch with your personal Siemens contact.
Order number (disk):
6ZB5310-0FY30-2AA0

If you need copying licenses for ScanTool 2000, just get in touch with your personal Siemens contact.

Update: 9/15/98

THE YEAR 2000 TRANSITION

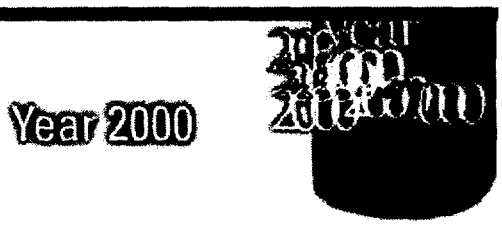
Siemens recognized the importance and complexity of the so-called "millennium bug" problem early on and is giving top priority to meeting this challenge. The matter is being approached openly and in close cooperation with all customers and suppliers associated with the Company. Nearly five years ago, Siemens conducted comprehensive analyses and took the first concrete steps toward dealing with the Year 2000 issue. To ensure that its business activities are not interrupted during the critical millennium transition, the Company undertook a thorough survey of all its business processes, operations and infrastructures.

The Managing Board set a timetable for all processes and designated responsibilities relating to the Year 2000 matter at its meeting in November 1997. Details are being handled by the operating units and Regional Companies, which have set up competence centers and are taking appropriate action with the help of teams of experts. In addition, an Action 2000 task force has been established to coordinate activities from the corporate offices.

Siemens is undertaking comprehensive measures and projects to achieve Year 2000 compliance - according to the British Standards Institute (BSI) DISC PD 2000-1 standard - for all of its products, systems, plants and services, as well as for its internal processes and networking with business partners. The Company aims to achieve full Year 2000 compliance by mid-1999 and has installed extensive project controlling and monitoring systems to guarantee that all measures worldwide are implemented in time. The current status of Year 2000 compliance for Siemens product offerings can be checked on the Internet or will be provided by the Company upon request.

Siemens takes its responsibility to customers, business partners, shareholders and employees seriously, and is convinced that the measures and projects now under way will ensure the seamless functioning of all its activities and business processes, as well as the functionality of its products, systems, plants and services across the threshold of the new millennium.

www.ad.siemens.de/logo/html_76/index.htm



Customer Support
Consultant Support
Training
Services
Year 2000 / Y2K
Product Database
Hints
Definition
Description
Contact Partners
White Paper
More Information

Definition of year 2000 conformance

1. Definition of year 2000 conformance for A&D

The definition for A&D products of what we understand by year 2000 conformance of a product is based on internationally recognized rules of the British Standards Institution (http://www.bsi.org.uk/bsi/disc/year2000.htm).

Definition:

Year 2000 conformance of a product means that the use of date values as of the coming turn of the millennium until the calendar limit of the product will return the required time and date and neither the performance nor function of the product will be impaired.

For the output of two-digit year values it is important to indicate to the customer that the year must be interpreted correctly.

2. Types of year 2000 conformance

Year 2000 conformance of products is classifed as follows.

Year 2000 conformance	
Yes	All tests successful
No	At least one essential test for the system function was not successful
Part	Not all test criteria fulfilled, however the system functionality is available (but, for example, the display is incorrect) or year 2000 conformance dependent on the product version More detailed information in the comments
Third Party	Product from a third-party manufacturer, more information in the comments
Not applicable	The product does not have a time/date function i.e. the test criteria cannot be applied

3. General test criteria

To conduct a year 2000 test, e.g. for 01.01.2000, the system clock

of a control must be set to 31.12.1999 23:58. After that, switch off the product (Power off/ Reboot). After approx. five minutes switch on the product again. The correct result is 01.01.2000 00:03, the day of the week Saturday. After that, check whether the product processes the new time correctly in all its functions and that the performance and functionality of the product are in no way restricted.

For clocks without battery back-up or software clocks the Power on / Power off is not required.
If the product contains special time functions (number of days of a year, daylight-saving/standard time switchover etc.), they must also be tested in addition to the minimum scope of the tests.

Minimum test scope for A&D products:		
31.12.1999 (Friday)	-> 01.01.2000 (Saturday)	Actual year 2000 test
28.02.2000 (Monday)	-> 29.02.2000 (Tuesday)	Leap year test
29.02.2000 (Tuesday)	-> 01.03.2000 (Wednesday)	Leap year test
31.12.2000 (Sunday)	-> 01.01.2001 (Monday)	2001 rollover test
28.02.2004 (Saturday)	-> 29.02.2004 (Sunday)	Leap year test
29.02.2004 (Sunday)	-> 01.03.2004 (Monday)	Leap year test
09.09.1999 (Thursday)		Special risk date

4. Calendar limits

The calendar limit of a product is the upper date limit up to which all date functions of the product can be used without error.
If the calendar limit is not known, 31.12.2020 is assumed to be the calendar limit and tested.

Test environment

Software must be tested in an environment consisting of year 2000 conformant components, i.e. if our software product is running on an NT server with Oracle, the server (clock, Bios), the NT operating system and the database must be year 2000 conformant.

5. Special test criteria for A&D software products

For product internal processing of date fields, the following critical points were checked:

Evaluations over a period

Sorting by date, use of the date as an index

- Searching, sorting, merging, or indexing of internal tables, linking of lists or other data structures based on date variables.
- Are these operations performed correctly for all possible values for date fields in the key variables?
- Creates the key index that contains the date fields, correct sequences for dates between 19xx und 20xx?

Logic / arithmetic operations

- Are time period calculation (difference in days) between two date fields, addition of time periods and data fields and day of the week calculation correct?
- Does the application compare date fields with sector-specific logic or use Boolean logic for that purpose? Do all these comparisons come up with the correct results for all combinations of values?

Leap year calculation

- Does the application perform a leap year calculation?
- Do these calculations treat the year 2000 as a leap year and the year 2001 as a non-leap year?

Day-of-the-week calculations

Treatment of a storage and version date

Version tests

Date-controlled back-up, archiving, recovery, and delete routines

Explicit century

- Are the first two digits of a four-digit year representation really calculated or is it just a constant with the value 19.

Implicit century

- How must the two-digit century be interpreted? E.g., do values between 00 and 49 imply the 20th century or those between 00 and 59?

Miscellaneous

- Does the application make use of further applications that assign one variable to another?
- Are the first two digits of a date cut off during an assignment?
- Is the value in the target variable used in date calculation that requires a four-digit value for a correct result?
- Does the application use language features such as REDEFINE in COBOL or COMMON in FORTRAN?
- For all redefined fields, does some variable or other ignore or truncate the value to two digits of the date field?
- Is the truncated value of the date used in a calculation that assumes that all values of a date have the first two-digits in common?

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R.S. CORCORAN Co.

MANUFACTURERS : CORROSION-RESISTANT CENTRIFUGAL PUMPS
EXOTIC ALLOYED CHEMICAL PUMPS

500 NORTH VINE STREET
P.O. BOX 429
NEW LENOX, IL 60451-0429

PHONE (815)-485-2156
TOLL FREE 1-(800)-637-1067
FAX (815)-485-5840

www.corcoranpumps.thomasregister.com • email: corcorpump@earthlink.net

FAX COVER / QUOTATION

DATE JULY 20, 1999

ATTENTION SCOTT SHERMAN

C/O MONTGOMERY WATSON

DOCUMENTS SENT BY BILL KRAMER

NUMBER OF PAGES (INCLUDING COVER SHEET) 1

Y2K:

WHILE CORCORAN PUMPS WOULD BE AFFECTED BY A POWER OUTAGE OR THE DISRUPTED FLOW OF SUPPLY LIQUID, IN AND OF THEMSELVES THE PUMPS WILL NOT BE THE CAUSE OF ANY Y2K PROBLEMS.

ATTN: SCOTT SHERMAN

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"Year 2000 Readiness Disclosure"

AURORA
FAIRBANKS MORSE
HYDROMATIC
LAYNE & BOWLER
MYERS

800 Airport Road
North Aurora, IL 60542
(630) 859-7000

December 21, 1998

Dear Valued Business Partner:

We at the Pentair Pump Group value your business and are committed to doing business with you without interruption, disruption or inconvenience. As part of this commitment, we would like to take this opportunity to reassure you with regard to our readiness for operations as we approach the new millennium.

As you are undoubtedly aware, year values greater than 1999 present problems to certain automated systems and can affect critical applications including accounting, purchasing, order entry and manufacturing. At the Pentair Pump Group we have implemented a plan for addressing the year 2000 issue and have taken proactive measures to ensure that our operations will remain smooth and continuous.

Our plan includes requesting our suppliers and vendors to provide us with assurances that they are addressing these same issues in a timely manner. Our Information Systems department is currently replacing its legacy information systems with new year 2000 compliant systems from a major vendor. For partners doing business with us via EDI, we will be supporting the new year 2000 compliant transaction set. Our Manufacturing Engineering department is reviewing manufacturing systems and taking necessary actions. Our Product Engineering department has reviewed our product lines and they are fully compliant.

In summary, this letter is to let you know that the Pentair Pump Group is dedicated to working together with our business partners to minimize the year 2000 problems so that our business and yours can continue to operate together as we have been doing. This letter is in lieu of any and all other correspondence, written or oral, received from us.

If you have any questions regarding our year 2000 plan, please feel free to email Steve Saunders, our Director of I.S., at stephen.saunders@pentairpump.com.

Sincerely,

T L Pellegrino

Tom L. Pellegrino
V.P. Finance

35

CULLUM & BROWN INC
1200 Burlington North Kansas City, MO 64116 (816) 842-7711
FAX (816) 842-4580 WATTS 800-877-7711

July 14, 1999

[redacted]
Montgomery Watson
Fax: 630-691-5133

Dear Mr. Sherman:

I am responding to your request for a status of our preparedness for the Year 2000 (Y2K) computer problem. We upgraded all of our computer hardware and software in 1997, and became Y2K compliant in our internal operations as a result. In addition, the manufacturers whose products represent about 90% of our sales either are now Y2K compliant or are in the implementation process.

You specifically requested information about a Jaeco Series E pump, but none of the products we distribute contain imbedded logic that would be affected by Y2K. The only way the performance of the Jaeco would be affected would be if you have it being run by another system device that was affected.

If you require any additional information, you may contact me directly – our address, phone and fax numbers are on this letter.

Sincerely,

Michael West

Michael West
Executive Vice President

37

ProMinent®

ProMinent Fluid Controls, Inc.
R. I. D. C. Park West
136 Industry Drive
Pittsburgh, PA 15275-1014
USA

Fax No.: **412-787-0704**
Phone: **412-787-2484**
Date: **July 15, 1999**
Page: **1 of 2**

To:	Montgomery Watson	**From:**	Steve Vander Lippe Year 2000 Contact
Fax No.:	630-691-5133	**E-mail:**	stevenv@pfc-amer.com
ATTN:	Scott Sherman	**Website**	http://www.pfc-amer.com

RE: Year 2000 (Y2K) Compliance

Per your request, please find attached ProMinent Fluid Controls, Inc Year 2000 readiness confirmation. This response covers all aspects of our abilities and the complete product line of ProMinent Fluid Controls, Inc. including:

Metering Pumps			
• Alpha	• Beta 4	• Beta 5	• CONCEPT
• Extronic	• FKM	• Gamma 4	• Gamma 5
• Makro	• Meta	• Mikro Gamma	• PHD/RHD/CLD
• Pneumados	• Sigma	• Vario	

Controllers / Systems / Specialty Products		
• Dulcomarin Pool Controllers	• Dulcometer Proportional / PID Controllers (D1C and D2C)	• Dulcotest Sensors
• Bello Zon Chlorine Dioxide Generators (CDVa and CDKa)	• Bono Zon / Ozonfilt Ozone Generators	
• Hydrogen Peroxide / Peracetic Acid Control	• P-Series Liquid Polymer System • Ultromat Dry Polymer Feeders	
• Reverse Osmosis Systems	• UV Systems	• WS Controllers

NOTE: Year 2000 status is not effected by (any) model type, for example:

BT4a1601PPE060BD000000 is simply a Beta 4

SICaHM12050PVT0000D000 is simply a Sigma.

D1CaW1P20000G210E is simply a Dulcometer Proportional / PID Controller (D1C).

Cordially,

Steven G. Vander Lippe
Quality Manager, **Year 2000 Contact**

(Document is electronically produced, no signature is attached. Please understand that due to volume of inquires all requests receive this pre-established response).

ProMinent Fluid Controls, Inc.

ProMinent®

Year 2000 (Y2K) Readiness

We at ProMinent Fluid Controls, Inc. are pleased to announce that we have achieved Year 2000 Compliance in all aspects of our business.

In early 1998, we began the assessment of the following areas:

1. Our product line
   - NO product ProMinent Fluid Controls, Inc. manufactures, now or in the past, contain internal calendar or date functions that are effected by the year 2000, 2001, or leap years.
2. Information and logistics systems
   - As of January 1, 1999 ProMinent Fluid Controls, Inc. has implemented a Year 2000 ready Information and Logistics System into all aspects of our business.
3. Ancillary systems
   - As of February 1, 1999 ProMinent Fluid Controls, Inc. has replaced our phone / voice mail system with a Year 2000 ready Communications System (this was the only area of our ancillary systems that failed the Y2K audit).
4. Suppliers
   - All of our key suppliers were audited for Year 2000 Compliance during 1998. Alternates and back-ups have been secured for those suppliers that provided a less than positive response.

Unfortunately, due to the number of external parties (suppliers, utilities, etc.) which we rely on to conduct business, and whose actions could have an adverse effect on our Year 2000 efforts. ProMinent Fluid Controls, Inc. cannot provide written or implied guarantees, certifications, or warranties as to our compliance for the Year 2000. We are using are best efforts to be prepared for the Year 2000 and feel confident that few, if any, difficulties will be incurred.

Y2K Lead Team Members:

Douglas C. Columbus
Information Systems Manager

Francis A. Perfett
Treasurer

Steven G. Vander Lippe
Quality Manager and **Y2K Contact**

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The Rival Company Year 2000 Compliance Plan

Thank you for your recent inquiry regarding Rival's awareness of and preparation for the Year 2000. We share your concerns, and wish to report that Rival is well into the third year of an aggressive, yet systematic approach to prepare for the Year 2000.

Rival has a plan in place that we believe has enabled us to identify Y2K issues and correct our systems and processes before they become a problem. Pursuant to this plan, we have deployed the financial, technical, manufacturing and management resources intended to achieve Year 2000 compliance.

During the last three years, we have installed Year 2000 compliant software in the following systems: Finance, Sales, Distribution, and Manufacturing (representing all the Company's computer based applications). We continue to test these systems to ensure they meet the necessary requirements that will minimize any disruption of critical business processes. Our work proceeds under the continuing guidance of an internal committee and we are targeting 30 June 1999 to complete testing.

We have confirmed that all current Rival products sold to our customers are Year 2000 compliant. In addition, we are verifying that all material internal systems are compliant.

The Rival Company however cannot warrant that we have received assurances from all vendors, suppliers, and governmental agencies that could materially adversely affect our business. We are pursuing assurances from all major vendors, but at this time have not received responses from all of them that their computing devices will not be subject to failures.

For those customers and vendors that participate in electronic commerce with us, the Company is targeting Year 2000 compliance by 30 June 1999.

We are confident that all material Year 2000 issues will be resolved by the end of 1999. Thank you again for your interest.

[BACK]

The Rival Company is a leading designer, manufacturer, and marketer of small household appliances, personal care appliances and sump, well and utility pumps. The Company sells its products under the **Rival®**, **Simer®**, **Pollenex®**, **Patton®**, **White Mountain®** and **Bionaire®** brand names.

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The Rival Company
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